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1.354.1 Available under license

1.355 gperftools 2.9.1

1.355.1 Available under license

1.356 lttng-ust 2.12.1

1.356.1 Available under license

1.357 glib-networking 2.66.0

1.357.1 Available under license

1.358 zlib 1.2.11

1.358.1 Available under license

1.359 linux-kernel 5.10.110

1.359.1 Available under license

1.360 libatomic 10.3.0

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1.361 chardet 4.0.0

1.361.1 Available under license

1.362 python-setuptools 58.1.0

1.362.1 Available under license

1.363 packaging 20.4

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1.364 pysocks 1.7.1

1.364.1 Available under license

1.365 futures 3.3.0

1.365.1 Available under license

1.366 example 21.12

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1.367 bind 8.100

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1.368 hpctoolkit Release-2021.05.15

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1.369 libjitterentropy 3.4.1

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1.370 base-64 0.1.0

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1.371 pkix-ssh 13.5

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1.372 acpica 20210105

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1.373 openssh 9.1p1

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1.374 openssl 1.1.1t

1.374.1 Notifications

1.374.2 Available under license

1.375 shared-mime-info 2.1

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1.376 sysv-init 2.99

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1.377 eudev 3.2.10

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1.378 u-boot 2014.07

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1.379 libcgrouper 0.41

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1.380 zstd 1.4.9

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1.381 rdma-cm 28.1

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1.382 time 1.9

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1.383 ifupdown 1.0

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1.387 bind 9.16.37

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1.393 docker 20.10.17-r0

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1.394 prime 0.1.2

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1.398 libnettle6 3.7.3

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1.399 libpkit 0.23.22

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1.400 libnsl 2.33

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1.401 ntp 4.2.8p17

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1.403 expat 2.4.1

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1.404 dnsmasq 2.85

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1.405 gzip 1.10

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1.406 python 2.7.18

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1.407 wget 1.21.1

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1.408 fribidi 1.0.10

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1.409 c-ares 1.16.1

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1.410 vim 8.2

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1.411 syslog-ng 3.36.1

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1.415 expat 2.2.10

1.415.1 Available under license

1.416 file 5.39

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1.417 d-bus 1.12.20

1.417.1 Available under license

1.418 xmlsec 1.2.31

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1.419 e2fsprogs 1.46.1

1.419.1 Available under license

1.420 sysstat 12.4.3

1.420.1 Available under license

1.421 python 3.9.9

1.421.1 Available under license

1.422 rsync 3.2.3

1.422.1 Available under license

1.423 libcap 2.48

1.423.1 Available under license

1.424 util-linux 2.36.2

1.424.1 Available under license

1.425 log-rotate 3.18.0

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1.426 libvirt 6.3.0

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1.427 qemu 5.2.0

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1.428 libpciaccess 0.16

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1.429 pam 1.5.1

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1.430 net-snmp 5.8

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1.431 libbacktrace 10.3.0

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1.432 openjdk-jre 1.8.0u282

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1.433 openjdk 1.8.0u282

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1.434 libsoup 2.72.0

1.434.1 Available under license

1.435 rexml 3.2.5

1.435.1 Available under license

1.436 autogen 4.2.8p15

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1.437 lz4 1.9.3

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1.438 pcre 8.44

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1.439 python-pip 21.2.4

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1.441 libtasn 4.17.0

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1.442 tornado 6.1

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1.443 iputils 20200821

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1.446 json 2.5.1
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1.447 cryptography 3.3.2
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1.448 errors 0.9.1
1.448.1 Available under license
1.449 python-certifi 2020.12.05
1.449.1 Available under license
1.450 netkit-telnet 0.17
1.450.1 Available under license
1.451 python-setuptools 54.1.1
1.451.1 Available under license
1.452 gawk 5.1.0
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1.453 rake 13.0.3
1.453.1 Available under license
1.454 fileutils 1.5.0
1.454.1 Available under license
1.455 ruby 3.0.1p64
1.455.1 Available under license
1.456 bundler 2.2.15
1.456.1 Available under license
1.457 sudo 1.9.5p2
1.457.1 Available under license
1.458 traceroute 2.0
1.458.1 Available under license
1.459 re2 2020.11.01
1.459.1 Available under license
1.460 ptyprocess 0.7.0
1.460.1 Available under license
1.461 goprotobuf 1.4.3
1.461.1 Available under license
1.462 urfave-cli 1.22.1
1.462.1 Available under license

1.1 libtomcrypt 1.17

1.1.1 Available under license :

```
# /*
#  * SHA-512
#  * Implementation derived from LibTomCrypt (Tom St Denis)
#  *
#  * LibTomCrypt is a library that provides various cryptographic
#  * algorithms in a highly modular and flexible manner.
#  *
#  * The library is free for all purposes without any express
#  * guarantee it works.
#  *
#  * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
#  */
```

1.2 lua 5.0.2

1.2.1 Available under license :

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For details and rationale, see <http://www.lua.org/license.html> .

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(end of COPYRIGHT)

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1.3 libjpeg 6b

1.3.1 Notifications :

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1.3.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION

ROADMAP

=====

This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.

REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal

documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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In plain English:

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ansi2knr.c is included in this distribution by permission of
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ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than

the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES

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We

highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE,

and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035

phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net> release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of

additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.4 log4cxx 0.10.0

1.4.1 Available under license :

Apache log4cxx

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1.5 guava 12.0

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1.6 csrp 1.0

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1.9 xinetd 2.3.15

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1.10 apache-log4j 1.2.14

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1.11 esapi 2.1.0

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*

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1.12 unzip 6.0

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FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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- * MoreFiles
- *
- * A collection of File Manager and related routines
- *
- * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
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- * MacBinaryIII.h
- *
- * Copyright 1997 Christopher Evans (cevens@poppybank.com)
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- * -----
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- * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
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Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten

and by default

no longer contains any of Mr. Smith's code, Info-ZIP

remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.13 lasso 2.5.1

1.13.1 Available under license :

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1.17 Izo 2.10

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1.18 open-ldap 2.4.46

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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1.21 gzip 1.9

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The

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1.23 free-type 2.9.1

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.gitignore

#

builds/unix/pkg.m4


```
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
```



```
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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1.26 kerberos 1.17

1.27 bzip2 1.0.8

1.28 dmidecode 3.5

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1.29 libdaemon 0.14

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1.30 zeromq 4.2.3

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Version 3, 29 June 2007

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1.31 jaxb-core 2.2.11

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1.32 cyrus-sasl 2.1.20

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1.33 net-tools 2.10

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1.42 cyrus-sasl 2.1.27

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* Tim Martin
* Rob Earhart
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/* CMU libsassl
* Tim Martin
* Rob Earhart
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1.43 binutils 2.31.51

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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and

simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We

concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,
mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you

distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system;

it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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Each

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>
<name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary.

Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is

not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
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recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to
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- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution

medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years

and valid for as

long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in

the same way through the same place at no

further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the

Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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1.45 protobuf 3.6.1

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- * Small optimizations to Python serialization.

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- * VI syntax highlighting tweaks.

- * Fix compiler to not make output executable.

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- * Heuristic detection of sub-messages when printing unknown fields in text format.

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- * Added @Override annotation to generated Java code where appropriate.

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- * Tru64 support.

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- * Solaris 10 + Sun Studio fixes.

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- * Slicing support for repeated scalar fields for the Python API.

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- * MS Visual Studio error format option.

- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).

- * Added generation of field number constants.

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- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

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- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

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- * Added CodedInputStream.getTotalBytesRead().

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- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

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1.46 ndg-httpsclient 0.5.1

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1.47 free-type 1.0

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2006-Jan-27

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builds/unix/pkg.m4

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docs/FTL.TXT


```
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
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src/tools/apinames.c
```


src/tools/ftrandom/ftandom.c

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to most

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1.49 bc 1.07

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The

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section 10

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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<head></head>

<body>

<h3>

Copyright Test


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</h3>
<p class="copyright">
  1963, 1964, 1965 Jane Doe
</p>
<p class="copyright">
  2018 Joe Blow, John Coe
</p>
<p class="copyright">
  1977, 1985 Someone else
</p>
</body>
</html>
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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
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////

```
[#mpl]
# MPL Support, <boost/mpi1/mpi.hpp>
:toc:
:toc-title:
:idprefix:
```

The header `<boost/mpi1/mpi.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../.../libs/mpi[MPL] sequences.

NOTE: `mpi.hpp` is not included by `<boost/mpi1/mpi.hpp>`.

1.52 apr 1.7.0

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1.54 screen 4.6.2

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1.57 dosfs-tools 4.1

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```
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I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired and contributed to many of the changes for version 3.0.0. He also provided the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:

- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information, reported bugs, provided feedback, or works on including BeeCrypt in any other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll rectify the situation as quickly as possible.

1.61 Im-sensors 3.4.0

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Here is a list of the main contributors to lm-sensors version 3.

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Original author of libsensors, sensors-detect, sensors and isadump.
- * Merlin Hughes
Original author of sensord.
- * Bob Schlaermann
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- * Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.
- * Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

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Version 3, 29 June 2007

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1.63 dhcp 4.4.1

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh,
admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '
'))"/>

<xsl:text>
</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '
')"/>

<xsl:if test="translate(\$rest, '	 ', ' ')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param

name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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</xsl:text>

</xsl:variable>

<xsl:variable name="isc.copyright">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text">

<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">

<xsl:text>Copyright (C) </xsl:text>

<xsl:call-template name="copyright.years">

<xsl:with-param name="years" select="year"/>

</xsl:call-template>

<xsl:text> </xsl:text>

<xsl:value-of select="holder"/>

<xsl:value-of select="\$isc.copyright.breakline"/>

<xsl:text>
</xsl:text>

</xsl:for-each>

<xsl:value-of select="\$isc.copyright.text"/>

</xsl:with-param>

</xsl:call-template>

</xsl:variable>

</xsl:stylesheet>

<!--

- Local variables:

- mode: sgml

- End:

-->

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1.64 bridgeutils 1.6

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1.66 ncurses 6.2

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.74 coreutils 8.32

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The

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1.75 websocketpp 0.8.1

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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L. Peter Deutsch
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***** UTF8 Validation logic (utf8_validation.hpp) *****

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1.76 sed 4.8

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore

permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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GNU LESSER GENERAL PUBLIC LICENSE

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this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms

of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

^L

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

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<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
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You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor,
Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysiner <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20

library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional
code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.
>>
>> I am sympathetic. Guys, what do you reckon?
>>
>> What I am hearing so far is that LGPL makes sense, since it can be

> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipv6.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed

Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.80 libnl3 3.5.0

1.80.1 Available under license :

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```
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1.81 libusb-compat 0.1.7

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Version 2.1, February 1999

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source code for the Library including whatever
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- b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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Bundled Libraries:

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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md5.hpp is a reformulation of the md5.h and md5.c code from <http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c> to allow it to function as a component of a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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L. Peter Deutsch

ghost@aladdin.com

***** UTF8 Validation logic (utf8_validation.hpp) *****

utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann
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1.84 pixman 0.40.0

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1.85 jansson 2.13.1

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1.86 numactl 2.0.12

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- */
- /**
- * Creates a new JSRInliner. <i>Subclasses must not use this constructor</i>. Instead, they must use the
- * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])} version.
- *
- * @param mv
- *
- the <code>MethodVisitor</code> to send the resulting inlined
- * method code to (use <code>null</code> for none).
- * @param access
- * the method's access flags (see { @link Opcodes}). This
- * parameter also indicates if the method is synthetic and/or
- * deprecated.
- * @param name
- * the method's name.
- * @param desc
- * the method's descriptor (see { @link Type}).
- * @param signature
- * the method's signature. May be <tt>null</tt>.
- * @param exceptions
- * the internal names of the method's exception classes (see
- * { @link Type#getInternalName() getInternalName}). May be
- * <tt>null</tt>.
- * @throws IllegalStateException
- * If a subclass calls this constructor.

*/

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*/

/**

* Constructs a new { @link LocalVariableAnnotationNode }. <i>Subclasses must

* not use this constructor</i>. Instead, they must use the

* { @link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}

* version.

*

* @param typeRef

* a reference to the annotated type. See { @link TypeReference }.

* @param typePath

* the path to the annotated type argument, wildcard bound, array


```

*      element type, or static inner type within 'typeRef'. May be
*      <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
*      the first instructions corresponding to the continuous ranges
*      that make the scope of this local variable (inclusive).
* @param end
*      the last instructions corresponding to the continuous ranges
*      that make the scope of this local variable (exclusive). This
*      array must have the same size as the 'start' array.
* @param index
*      the local variable's index in each range. This array must have
*      the same size as the 'start' array.
* @param desc
*      the class descriptor of
the annotation class.
*/

```

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/**

* Constructs a new { @link ClassNode}. <i>Subclasses must not use this

* constructor</i>. Instead, they must use the { @link #ClassNode(int)}

* version.

*

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

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*/

/**

* Creates a new { @link GeneratorAdapter}. <i>Subclasses must not use this

* constructor</i>. Instead, they must use the

* { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}

* version.

*

* @param mv

* the

method visitor to which this adapter delegates calls.

* @param access

* the method's access flags (see { @link Opcodes}).

* @param name

* the method's name.

* @param desc

- * the method's descriptor (see { @link Type Type}).
- * @throws IllegalStateException
- * If a subclass calls this constructor.
- */

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LabelNode.java

* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureWriter.java

* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/Method.java


```

*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/FieldWriter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/ClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/Constant.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Context.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-

```



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jar/org/objectweb/asm/Frame.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/TypeAnnotationNode.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Type.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/InsnList.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/Printer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/Subroutine.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/FieldNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/ASMifier.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/RemappingClassAdapter.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Edge.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/FieldVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/Frame.java

```



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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/IncInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/MethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Item.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/MethodInsnNode.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Opcodes.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-

```



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jar/org/objectweb/asm/Attribute.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/ClassReader.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/ByteVector.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/AnnotationWriter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/InsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Label.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Handle.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/ClassWriter.java

```



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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/MethodWriter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
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/**

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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Textifiable.java

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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/package.html

* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/package.html

*

/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/package.html

* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/package.html

* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/package.html

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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/TypeReference.java

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- */
- /**
- * Constructs a new { @link Textifier}. <i>Subclasses must not use this
- * constructor</i>. Instead, they must use the { @link #Textifier(int)}
- * version.
- *
- * @throws IllegalStateException
- * If a subclass calls this constructor.
- */

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- */
- /**
- * Creates a new { @link AnalyzerAdapter}. <i>Subclasses must not use this
- * constructor</i>. Instead, they must use the
- * { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
- * version.
- *
- * @param owner
- *
- * the owner's class name.
- * @param access
- * the method's access flags (see { @link Opcodes}).
- * @param name
- * the method's name.
- * @param desc
- * the method's descriptor (see { @link Type Type}).
- * @param mv
- * the method visitor to which this adapter delegates calls. May
- * be <tt>null</tt>.
- * @throws IllegalStateException
- * If a subclass calls this constructor.
- */

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jar/org/objectweb/asm/optimizer/shrink-frames.properties  
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/optimizer/shrink-writer.properties  
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/optimizer/shrink-resize.properties  
*  
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/optimizer/shrink-annotations.properties  
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/optimizer/shrink-signatures.properties  
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jar/org/objectweb/asm/optimizer/shrink.properties
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1.95 libidn 2.3.0

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section 10

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1.100 redis 3.5.3

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1.101 hiredis 1.0.0

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1.102 bitset 1.1.11

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1.103 python3-asn1crypto 1.4.0

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1.104 go-md2man 2.0.0-20190314233015-f79a8a8ca69d

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1.105 libidn 1.36

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master/multipart_parser.c
* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3-zip/multipart-parser-c-
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[This is the first released version of the Lesser GPL. It also counts
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version number 2.1.]

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@subheading END OF TERMS AND CONDITIONS

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If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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@heading Appendix: How to Apply These Terms to Your New Programs

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and a brief idea of what it does.}
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when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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necessary. Here is a sample; alter the names:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice
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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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Version 3, 29 June 2007

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1.119 pycrypto 2.6.1

1.119.1 Available under license :

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Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see <LEGAL/copy/LICENSE.orig>).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

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=== EOF ===

# 1.120 pyasn1 0.4.8

## 1.120.1 Available under license :

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Metadata-Version: 1.2

Name: pyasn1

Version: 0.4.8

Summary: ASN.1 types and codecs

Home-page: <https://github.com/etingof/pyasn1>

Author: Ilya Etingof

Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)

Maintainer: Ilya Etingof <[etingof@gmail.com](mailto:etingof@gmail.com)>

License: BSD

Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: Intended Audience :: Telecommunications Industry

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

Classifier:

Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

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Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7



Classifier: Topic :: Communications

Classifier: Topic :: Software Development :: Libraries :: Python Modules

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0.4.8/pyasn1/compat/dateandtime.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-

0.4.8/tests/codec/ber/test\_encoder.py

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0.4.8/pyasn1/codec/native/encoder.py

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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py

\*

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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_namedval.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_opentype.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py

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/opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/\_\_main\_\_.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/\_\_main\_\_.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test\_integer.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/\_\_main\_\_.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_char.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/setup.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_tag.py

\*

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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test\_binary.py



```

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_octets.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/der/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/ber/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
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/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/test_encoder.py

```

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ASN.1 library for Python

-----

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)  
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)  
[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)  
[![Coverage Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)  
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

-----

\*

Generic implementation of ASN.1 types (X.208)

\* Standards compliant BER/CER/DER codecs

\* Dumps/loads ASN.1 structures from Python types

\* 100% Python, works with Python 2.4 up to Python 3.7

\* MT-safe

\* Contributed ASN.1 compiler [Asn1late](https://github.com/kimgr/asn1late)



## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.  
[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)  
by  
Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id      INTEGER,
  room    [0] INTEGER OPTIONAL,
  house   [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
```



```

        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
    )
),
DefaultedNamedType(
    'house',
Integer(0).subtype(
    implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
)
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>

```



```

>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats



could be found in the pyasn1-modules  
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause  
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely  
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If

something does not work as expected,  
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or  
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)  
or try browsing pyasn1  
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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.. \_license:

License

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.. include:: ../../LICENSE.rst

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ASN.1 library for Python

=====

.. toctree::

:maxdepth: 1

Abstract Syntax Notation One (ASN.1

<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)>\_) is a  
technology for exchanging structured data in a universally understood,  
hardware agnostic way. Many industrial, security and telephony  
applications heavily rely on ASN.1.



The `pyasn1` <<https://pypi.org/project/pyasn1/>> library implements ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>> or `FlatBuffers` <<https://google.github.io/flatbuffers/>>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

-----



Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

#### Documentation

-----

```
.. toctree::
    :maxdepth: 2

    /pyasn1/contents
```

#### Use case

-----

```
.. toctree::
    :maxdepth: 2

    /example-use-case
```

#### Download & Install

-----

```
.. toctree::
    :maxdepth: 2
```



/download

## Changes

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All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

..

toctree::

:maxdepth: 1

/changelog

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## Getting help

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Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_` and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.

Alternatively, you could ask for help at

`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_` or search

`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_` mailing list archive.

## Books on ASN.1

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The pyasn1 implementation is largely based on reading up the following awesome books:

\* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_` by Olivier Dubuisson

\* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_` by Prof John Larmouth



Here you can get the official standards which is hard to read:

\* `ITU standards

<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_

On the other end of the readability spectrum, here is a quick and sweet write up:

\* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`\_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

# 1.121 pyparsing 2.4.7

## 1.121.1 Available under license :

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## 1.129 icu 68

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
```



```

SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*/1.o $@ : /g\"> $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*/1.o $@ : /g\"> $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

```



## End BSD-specific setup

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# and not be held liable to the user for any such damages as noted
# above as far as the program is concerned.
#
# -----COPYING.ipadic-----END-----
```

### 3. Lao Word Break Dictionary Data (laodict.txt)

```
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#
# Project: https://github.com/veer66/lao-dictionary
# Dictionary: https://github.com/veer66/lao-dictionary/blob/master/Lao-Dictionary.txt
# License: https://github.com/veer66/lao-dictionary/blob/master/Lao-Dictionary-LICENSE.txt
#         (copied below)
#
# This file is derived from the above dictionary, with slight
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# -----
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```



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```
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#
# This list is part of a project hosted at:
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#
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```

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## Database section 7.

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#

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# 1.130 restlet 2.4.3

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/**
 * Authorizer allowing only confidential calls. Confidential
 * calls typically
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 *
 * @author Jerome Louvel
 */
```

Found in path(s):

```
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\*/

/\*\*

\* Constructor.

\*

\* @param server

\* @param

exchange

\* @param confidential

\*/

Found in path(s):

\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpExchangeCall.java

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Found in path(s):

\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-  
 jar/org/restlet/engine/resource/MethodAnnotationInfo.java  
 \*  
 /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-  
 jar/org/restlet/engine/util/StringUtils.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-  
 jar/org/restlet/representation/DigesterRepresentation.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-  
 jar/org/restlet/representation/AppendableRepresentation.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-  
 jar/org/restlet/engine/local/ZipClientHelper.java

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*/
/** The confidentiality. */
/**
 * Constructor.
 *
 * @param schemeName
 *      The scheme name.
 * @param name
 *      The unique name.
 * @param description
 *      The description.
 * @param defaultPort
 *      The default port.
 * @param confidential
 *      The confidentiality.
 */
/**
 * Indicates if the protocol guarantees the confidentiality of the messages
 * exchanged, for example via a SSL-secured connection.
 *
 * @return True if the protocol is confidential.
 */

```

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\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Protocol.java

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Found in path(s):

- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/DispositionReader.java
- \*
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/ExpectationWriter.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/DateUtils.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/SystemUtils.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Put.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/Entity.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/DateWriter.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/DecoderService.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Validator.java
- \*
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/ReaderRepresentation.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Template.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/Decoder.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/CorsFilter.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/PreferenceWriter.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/SslUtils.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/CharacterRepresentation.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/StringWriter.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/CompositeHelper.java



```

*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/Authenticator.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/ChallengeRequestReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/service/ConverterService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Client.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/ReadableSelectionChannel.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/EngineClassLoader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/ChildContext.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/Conneg.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/TagWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/resource/VariantInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Result.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/StatusInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Tag.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Router.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/WriterOutputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Context.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/ImmutableDate.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Range.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Dimension.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/StreamRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/VirtualHost.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/WrapperScheduledExecutorService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/component/ComponentClientDispatcher.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/local/LocalClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Expectation.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/ReaderInputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-

```



```

jar/org/restlet/engine/header/HeaderConstants.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/local/ClapClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/ReadableRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/ByteArrayRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/RepresentationInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/PreferenceReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/ChallengeAuthenticator.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Route.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/adaptor/HttpClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/ServiceList.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/EncodingReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Parameter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/component/ComponentContext.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Application.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/service/ConnectorService.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/CorsResponseHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/OutputRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/local/FileEntity.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/converter/ConverterHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/InputStreamChannel.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/security/SmtpPlainHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/LogService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/resource/ThrowableAnnotationInfo.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/component/ClientRouter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/connector/Method.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-

```



```

jar/org/restlet/engine/connector/HttpServerHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Response.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/UnclosableOutputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/security/AuthenticatorHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/CallResolver.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/CookieWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/CacheDirective.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/EmptyRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/CookieSettingWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/local/EntityClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/ClientList.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/local/ZipEntryRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/User.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Role.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/converter/StatusInfoHtmlConverter.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/log/IdentClient.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Status.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/ExpectationReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/local/DirectoryServerResource.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/LocalReference.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/CorsService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/converter/ConverterUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/MediaType.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/ReferenceUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/util/SelectionRegistration.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/RecipientInfoReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Enroler.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/ContentTypeReader.java

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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/RangeWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/security/AuthenticatorUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/component/ServerRouter.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/TagReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/component/ComponentXmlParser.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/WakeupListener.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/connector/ConnectorHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/CookieReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/ssl/DefaultSslContextFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/adapter/ServerAdapter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/ClientInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Variable.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/InputRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/MemoryRealm.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/ChannelRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/data/ChallengeScheme.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/ProductReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/ssl/WrapperSslContextSpi.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/adapter/HttpResponse.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperList.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/CharacterSet.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/HeaderReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/DefaultSaxHandler.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/RecipientInfoWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/Edition.java

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\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Reference.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/ServerList.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/RouteList.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/Engine.java  
 \*  
 /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/RangeFilter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/RecipientInfo.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/ReferenceList.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adaptor/Adapter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Server.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/DimensionReader.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/LanguageWriter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/ResourceException.java  
 \*  
 /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/ContextualRunnable.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/CharacterReadingListener.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/ZipEntryEntity.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpClientHelper.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/CertificateAuthenticator.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Status.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/ObjectRepresentation.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/AccessLogFormatter.java  
 \*  
 /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/PipeStream.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/RiapServerHelper.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Post.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/AnnotationInfo.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Patch.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/Service.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/UnclosableInputStream.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Digest.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/security/RoleMapping.java



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*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperRestlet.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/SelectionChannel.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/ChallengeWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Verifier.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/resource/ServerResource.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/Series.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Metadata.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/BeanInfoUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/RangeInputStream.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/data/ChallengeRequest.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/service/StatusService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/connector/HttpsServerHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/data/AuthenticationInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Conditions.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/SecretVerifier.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/MethodWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/Variant.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/CookieSetting.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/SelectorFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/StringReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/BlockableChannel.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Warning.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Restlet.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/util/WrapperRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Uniform.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/util/ByteReadingListener.java
*

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/opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/NamedValue.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/FormReader.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/AccessLogFileHandler.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Group.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CacheDirectiveReader.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Method.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/FtpClientHelper.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/SimplestFormatter.java  
 \*  
 /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/RestletHelper.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/ContentType.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/RangeReader.java  
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 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/InternalRouter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/ClientHelper.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/WritableRepresentation.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/TunnelFilter.java  
 \*  
 /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/ChallengeMessage.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Disposition.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Extractor.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/ComponentServerDispatcher.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/SelectionListener.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/MapVerifier.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/FileClientHelper.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Encoding.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/StringReadingListener.java  
 \*  
 /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/SslContextFactory.java



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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/WarningWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/component/ClientRoute.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/LogUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/Pool.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/ProductWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/DecodeRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/local/RiapClientHelper.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Delete.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/RangeRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/FlexibleConneg.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/DispositionWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Preference.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/ChildClientDispatcher.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/TemplateDispatcher.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
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*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/RoleAuthorizer.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/TokenReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/service/RangeService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/LanguageReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/BufferingRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/connector/ProtocolHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/resource/ClientResource.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/WriterRepresentation.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/MetadataWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-

```



```

jar/org/restlet/representation/Representation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/adapt/ClientCall.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/NbChannelInputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/WarningReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/Encoder.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Form.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Product.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/HeaderWriter.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/InternetDateFormat.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/resource/ClientProxy.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Filter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/IOUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/MetadataExtension.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/CaseInsensitiveHashSet.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Component.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/EncodeRepresentation.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/service/TunnelService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/MethodAuthorizer.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/data/ChallengeResponse.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/LocalVerifier.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Header.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Finder.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/MethodReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/AlphabeticalComparator.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/Helper.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Realm.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/adapt/HttpServerHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-

```



```

jar/org/restlet/representation/FileRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/StatusFilter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/connector/WebDavProtocolHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperMap.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/ApplicationHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/routing/TemplateRoute.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/StrictConneg.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/log/SimplerFormatter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Connector.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/component/HostRoute.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/log/LoggerFacade.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/DimensionWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/connector/HttpProtocolHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/CookieSettingReader.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Authorizer.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/StringRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Language.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/ssl/WrapperSslServerSocketFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Redirector.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/security/HttpBasicHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/ListUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/FormUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/connector/ConnectionClosingRepresentation.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/NbChannelOutputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/ssl/WrapperSslSocketFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/service/MetadataService.java

```



\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Cookie.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/ReadingListener.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/HeaderUtils.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Options.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Get.java  
 \*  
 /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/ClientInvocationHandler.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CacheDirectiveWriter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/URLConnectionCall.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/DefaultSslContext.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/LogFilter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/EncodingWriter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/ComponentHelper.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/MapResolver.java  
 \*  
 /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/ServerInfo.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/converter/DefaultConverter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/EncoderService.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adaptor/ClientAdapter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/LoggingThreadFactory.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/DefaultAccessLogFormatter.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/ConnegService.java  
 \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/SetUtils.java  
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- \*/
- /\*\*
- \* Indicates if the call came over a confidential channel
- such as an
- \* SSL-secured connection.
- \*
- \* @return True if the call came over a confidential channel.
- \*/

Found in path(s):

- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperRequest.java
- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-
- jar/org/restlet/util/WrapperResponse.java

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```

*
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*/
/** Indicates if the call is confidential. */
/**
    * Indicates
    if the confidentiality of the call is ensured (ex: via SSL).
    *
    * @return True if the confidentiality of the call is ensured (ex: via SSL).
    */
/**
    * Indicates if the confidentiality of the call is ensured (ex: via SSL).
    *
    * @param confidential
    *     True if the confidentiality of the call is ensured (ex: via
    *     SSL).
    */

```

Found in path(s):

\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapters/Call.java  
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*/
/**
* Optimized public-domain implementation of a Java alphanumeric

```



```

sort.
* <p>
*
* This implementation uses a single comparison pass over the characters in a
* CharSequence, and returns as soon as a differing character is found, unless
* the difference occurs in a series of numeric characters, in which case that
* series is followed to its end. Numeric series of equal length are compared
* numerically, that is, according to the most significant (leftmost) differing
* digit. Series of unequal length are compared by their length.
* <p>
*
* This implementation appears to be 2-5 times faster than alphanumeric
* comparators based based on substring analysis, with a lighter memory
* footprint.
* <p>
*
* This alphanumeric comparator has approximately 20%-50% the performance of the
* lexical String.compareTo() operation. Character sequences without numeric
* data are compared more quickly.
* <p>
*
* Dedicated to the public domain by the original author:
* http://creativecommons.org/licenses/publicdomain/
*
* @author Rob Heittman,
* http://www.solertium.com>Solertium
* Corporation</a>
*/

```

Found in path(s):

```

* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/AlphaNumericComparator.java

```

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- \*/
- /\*\*
- \* Application service capable of running and scheduling
- tasks asynchronously.
- \* The service instance returned will not invoke the runnable task in the
- \* current thread.<br>
- \* <br>
- \* In addition to allowing pooling, this method will ensure that the threads
- \* executing the tasks will have the thread local variables copied from the
- \* calling thread. This will ensure that call to static methods like
- \* { @link Application#getCurrent() } still work.<br>
- \* <br>
- \* Also, note that this executor service will be shared among all Restlets and
- \* Resources that are part of your context. In general this context corresponds
- \* to a parent Application's context. If you want to have your own service
- \* instance, you can use the { @link TaskService#wrap(ScheduledExecutorService) }
- \* method to ensure that thread local variables are correctly set.
- \*
- \* @author Jerome Louvel
- \* @author Doug Lea (docs of ExecutorService in public domain)
- \* @author Tim Peierls
- \*/

Found in path(s):

- \* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/TaskService.java

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*/
/**
 * Sets the reference comparator based on the more friendly
 "Alphanum
 * Algorithm" created by David Koelle. The internal implementation used is
 * based on an optimized public domain implementation provided by Rob
 * Heitman from the Solertium Corporation.
 *
 * @see <a href="http://www.davekoelle.com/alphanum.html">The original
 *   Alphanum Algorithm from David Koelle</a>
 * @see #setComparator(Comparator)
 */

```

Found in path(s):

```

* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Directory.java

```

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```



```

*/
/**
 * Implemented based on the { @link Protocol#isConfidential() }
method for the
 * request's protocol returned by { @link #getProtocol() };
*/

```

Found in path(s):

\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Request.java  
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 * https://restlet.talend.com/
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*/
/**
 * Indicates if this service is acting in HTTP or HTTPS
mode.
 *
 * @param confidential
 *      True if this service is acting in HTTP or HTTPS mode.
*/

```

Found in path(s):

\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/NetServerHelper.java  
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```

/**

```



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Found in path(s):

\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-  
jar/org/restlet/engine/adapters/ServerCall.java  
\*  
/opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-  
jar/org/restlet/engine/resource/AnnotationUtils.java  
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\* Indicates if the message was or will be exchanged  
 confidentially, for  
 \* example via a SSL-secured connection.  
 \*  
 \* @return True if the message is confidential.  
 \* @see Request#isConfidential()  
 \*/

Found in path(s):

\* /opt/cola/permits/1122075426\_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Resource.java  
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 confidentially, for  
 \* example via a SSL-secured connection.  
 \*  
 \* @return True if the message is confidential.



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Found in path(s):

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/\*\*

\* Resolves a name into a value. By default, the { @link #createResolver(Map)}

\* static method can adapt a Java map into a resolver. Another useful method is

\* { @link #createResolver(Request, Response)}, which can expose a Restlet call

\* into a compact data model, with the following variables:

\*

\* <table>

\* <tr>

\* <th>Model property</th>

\* <th>Variable name</th>

\* <th>Content type</th>

\* </tr>

\* <tr>

\* <td>request.confidential</td>

\* <td>c</td>

\* <td>boolean (true|false)</td>

\* </tr>

\* <tr>

\* <td>request.clientInfo.address</td>



```

* <td>cia</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.clientInfo.upstreamAddress</td>
* <td>ciua</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.clientInfo.agent</td>
* <td>cig</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.challengeResponse.identifier</td>
* <td>cri</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.challengeResponse.scheme</td>
* <td>crs</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.date</td>
* <td>d</td>
* <td>Date (HTTP format)</td>
* </tr>
* <tr>
* <td>request.entity.characterSet</td>
* <td>ecs</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.entity.characterSet</td>
* <td>ECS</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.entity.encoding</td>
* <td>ee</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.entity.encoding</td>
* <td>EE</td>
* <td>String</td>
* </tr>

```



```

* <tr>
* <td>request.entity.expirationDate</td>
* <td>eed</td>
* <td>Date (HTTP format)</td>
* </tr>
* <tr>
* <td>response.entity.expirationDate</td>
* <td>EED</td>
* <td>Date (HTTP format)</td>
* </tr>
* <tr>
* <td>request.entity.language</td>
* <td>el</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.entity.language</td>
* <td>EL</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.entity.modificationDate</td>
* <td>emd</td>
* <td>Date (HTTP format)</td>
* </tr>
* <tr>
* <td>response.entity.modificationDate</td>
* <td>EMD</td>
* <td>Date (HTTP format)</td>
* </tr>
* <tr>
* <td>request.entity.mediaType</td>
* <td>emt</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.entity.mediaType</td>
* <td>EMT</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.entity.size</td>
* <td>es</td>
* <td>Integer</td>
* </tr>
* <tr>
* <td>response.entity.size</td>
* <td>ES</td>

```



```

* <td>Integer</td>
* </tr>
* <tr>
* <td>request.entity.tag</td>
* <td>et</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.entity.tag</td>
* <td>ET</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.referrerRef</td>
* <td>f*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>request.hostRef</td>
* <td>h*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>request.method</td>
* <td>m</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.rootRef</td>
* <td>o*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>request.protocol</td>
* <td>p</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.resourceRef</td>
* <td>r*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>response.redirectRef</td>
* <td>R*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>

```



```

* <td>response.status</td>
* <td>S</td>
* <td>Integer</td>
* </tr>
* <tr>
* <td>response.serverInfo.address</td>
* <td>SIA</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.serverInfo.agent</td>
* <td>SIG</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.serverInfo.port</td>
* <td>SIP</td>
* <td>Integer</td>
* </tr>
* </table>
* <br>
*
* Below is the list of name sub-parts, for Reference variables, that can
* replace the asterix in the variable names above:<br>
* <br>
*
* <table>
* <tr>
* <th>Reference property</th>
* <th>Sub-part name</th>
* <th>Content type</th>
* </tr>
* <tr>
* <td>authority</td>
* <td>a</td>
* <td>String</td>
* </tr>
* <tr>
* <td>baseRef</td>
* <td>b*</td>
* <td>Reference</td>
* </tr>
* <tr>
* <td>targetRef</td>
* <td>t*</td>
* <td>Reference</td>
* </tr>
* <tr>

```



```

* <td>relativePart</td>
* <td>e</td>
* <td>String</td>
* </tr>
* <tr>
* <td>fragment</td>
* <td>f</td>
* <td>String</td>
* </tr>
* <tr>
* <td>hostIdentifier</td>
* <td>h</td>
* <td>String</td>
* </tr>
* <tr>
* <td>identifier</td>
* <td>i</td>
* <td>String</td>
* </tr>
* <tr>
* <td>path</td>
* <td>p</td>
* <td>String</td>
* </tr>
* <tr>
* <td>query</td>
* <td>q</td>
* <td>String</td>
* </tr>
* <tr>
* <td>remainingPart</td>
* <td>r</td>
* <td>String</td>
* </tr>
* </table>
*
* @author Jerome Louvel
*/

```

Found in path(s):

```
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/Resolver.java
```

## 1.131 libgpg-error 1.41



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<signature of Ty Coon>, 1 April 1989

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 \*/

Found in path(s):

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDBeanMapping.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/server/ServletEndpointContext.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/TypeMapping.java  
 \*  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Handler.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/HandlerChain.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/PlainTextDataSource.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/HexSerializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/InputStreamBody.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/BackslashUtil.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/enum/Style.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-



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jar/org/apache/axis/wsdl/symbolTable/SymTabEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/VectorDeserializerFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/providers/WSDDComProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/FactoryFinder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/PlainTextDataHandlerDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/EnumSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/handler/soap/SOAPMessageContext.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/XMLStringProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPPart.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/security/servlet/ServletSecurityProvider.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/security/servlet/ServletAuthenticatedUser.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/constants/Style.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/TypeMappingImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/MapSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/HexBinary.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/MapDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/ArrayDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/gen/NoopFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/VectorDeserializer.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/script/BSF.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/types/NonPositiveInteger.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaInterfaceWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/HTTPConstants.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/uuid/UUIDGenFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/MapDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/session/SimpleSession.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPElement.java

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*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/local/LocalResponder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/JAXRPCHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/JAFDataHandlerDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/encoding/AbstractXMLEncoder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/VectorSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/Token.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/CollectionTE.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/security/simple/SimpleSecurityProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/LongHolder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaBeanWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/UnsignedByte.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/TimeSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/OctetStreamDataSource.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/AxisClientProxy.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/NMTOKEN.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/mail/MailConstants.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/encoding/Deserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/SerializationContext.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/SessionHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/AxisHttpSession.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/DeserializerImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/providers/ComProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Version.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/impl/cache/JavaClass.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/local/LocalTransport.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/Detail.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/DefaultHTTPTransportClientProperties.java

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*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaBeanFaultWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDUndeployment.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Message.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPElementFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/TimeSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/security/simple/SimpleAuthenticatedUser.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaServiceWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/RPCHeaderParam.java
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/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/server/ParamList.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/FaultHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaRPCProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/CalendarHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/compiler/AbstractCompiler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/HandlerInfo.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/constants/Enum.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/ElementDecl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaServiceIfaceWriter.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/AxisServiceConfig.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/MimeMultipartHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/BoundaryDelimitedStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/session/Session.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/cache/MethodCache.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPException.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/Options.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/EnumDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/Attachments.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/HandlerInfoChainFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-

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jar/org/apache/axis/wsdl/symbolTable/BindingEntry.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/async/Status.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/NegativeInteger.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/EnumDeserializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/DimeBodyPart.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/Stub.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/IDKey.java  
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 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ElementSerializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/DocumentDeserializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/constants/Use.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/HexSerializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/FloatWrapperHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/BeanUtils.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/schema/SchemaVersion2000.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/ManagedMemoryDataSource.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/i18n/MessageBundle.java  
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 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/collections/LRUMap.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/CalendarSerializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/compiler/Jikes.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/DoubleHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/net/BooleanHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/ContainedAttribute.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/NodeImpl.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPConstants.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/Base64DeserializerFactory.java  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/Admin.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/PositiveInteger.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDProvider.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/Base64.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/SOAPPart.java



\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/BigIntegerHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/FactoryFinder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/UndefinedType.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/BooleanHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/providers/WSDDBsfcProvider.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/fromJava/Namespaces.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/UnsignedInt.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/async/AsyncCall.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/NodeListImpl.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/uuid/SimpleUUIDGen.java  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/SerializerFactory.java  
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 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPFaultElement.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/QNameSerializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/DefaultEntityResolver.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/Service.java  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/net/SunFakeTrustSocketFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/local/Handler.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/compiler/Compiler.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/mail/MailTransport.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPMessage.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/SocketInputStream.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/Text.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDRequestFlow.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/encoding/Serializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/Call.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaImplWriter.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/monitor/SOAPMonitorConstants.java



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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/NullProvider.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/encoding/UTF16Encoder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/BeanSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/BaseType.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/Handler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/IBMJSSESocketFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/image/MerlinIO.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaServiceImplWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaDefinitionWriter.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/FloatHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/Stub.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utis/WSDLUtils.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/NCName.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPFault.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/encoding/EncodedByteArray.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/NamedNodeMapImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/SimpleDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SAX2EventRecorder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/types/NonNegativeInteger.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/schema/SchemaVersion1999.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/DateSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/DateDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/UnsignedShort.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/JAFDataHandlerSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/SkeletonImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-

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jar/org/apache/axis/transport/http/QSMethodHandler.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/client/async/AsyncResult.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/ElementDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/SimpleAxisWorker.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/http/HTTPAuthHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/EnvelopeHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/soap/SOAPFaultException.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/i18n/Messages.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/ParameterDesc.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/TypeEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/CalendarDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/providers/BasicProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/image/JDK13IO.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ConstructorTarget.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/FilterPrintWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/OctetStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/DateSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/DateDeserializerFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPEnvelope.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/SimpleSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/TimeDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/messaging/Endpoint.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utis/ArrayUtil.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/MessageFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPFaultDetailsBuilder.java

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/DebugHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDTransport.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/MessageWithAttachments.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/Undefined.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/DefaultHTTPSTransportClientProperties.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/security/AuthenticatedUser.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/MimeUtils.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/Emitter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/QNameSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/ServiceException.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaTypeWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/fromJava/Emitter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/ImageDataHandlerSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaHolderWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/uuid/FastUUIDGen.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/DynamicContentDataHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDGlobalConfiguration.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPHeader.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDJAXRPCHandlerInfo.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaClassWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/DetailEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/PlainTextDataHandlerSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/server/ServiceLifecycle.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/schema/SchemaVersion.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/MethodTarget.java

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/gen/WSDL2.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/DimeMultiPart.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/CommonsHTTPSender.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/XMLType.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/CollectionType.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDResponseFlow.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/PortEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/NoEndPointException.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/MessageContext.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/AxisFault.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/providers/BSFProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/BasicHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/LogHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/DimeDelimitedInputStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDTypeMappingContainer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/mail/MailServer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/IDRefs.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/Call.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/FieldPropertyDescriptor.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/MultiPartDimeInputStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/DefinedElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/soap/SOAPConnectionFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/SimpleType.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPFault.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/MimeHeader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/PrefixedQName.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SAXOutputter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaEJBProvider.java
*

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/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/Parameters.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDDeployableItem.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/http/URLMapper.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/NSStack.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/providers/WSDDHandlerProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPHeaderElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/QNameHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/DimeTypeNameFormat.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaCORBAProvider.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/holders/ByteWrapperHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/http/HTTPActionHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/DefinedType.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/GenericHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/AbstractQueryStringHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/MimeMultipartDataSource.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/Serializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaStubWriter.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/CallbackTarget.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/SimpleDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/types/NormalizedString.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaSkelWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/RPCParamTarget.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/i18n/MessagesConstants.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/IDRef.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/Type.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/AxisProperties.java
*

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/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Id.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utls/tcpmon.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/image/ImageIO.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utls/Mapping.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/Java2WSDL.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPEnvelope.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDEXception.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/async/IAsyncResult.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/script/ScriptFactory.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utls/cache/JavaMethod.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/VectorSerializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utls/CLArgsParser.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ElementDeserializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/net/CommonsHTTPClientProperties.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/HeaderBuilder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/net/IBMFakeTrustSocketFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/FileProvider.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/ServiceFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/ParameterMode.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/castor/CastorDeserializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utls/DOM2Writer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/BodyBuilder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/providers/java/JavaProvider.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaTestCaseWriter.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/TimeDeserializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/SimpleChain.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Language.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/encoding/DefaultXMLEncoder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/i18n/ProjectResourceBundle.java



\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/SymbolTable.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/SourceHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/providers/java/EJBProvider.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/DuplicateFileException.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/BigDecimalHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/InternalException.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/FaultDesc.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/MessageEntry.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/IDResolver.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/ChunkedInputStream.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/uuid/UUIDGen.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/mail/Handler.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/UndefinedElement.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/SimpleTargetedChain.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/Skeleton.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/HexDeserializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/JavaUtils.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/EchoHandler.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ArrayDeserializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/DefaultTypeMappingImpl.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/encoding/SerializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/image/ImageIOFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/encoding/DeserializationContext.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/DirProvider.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaBindingWriter.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/MultiPartInputStream.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/ClassUtils.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Entity.java



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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/DefaultSocketFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDFaultFlow.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/enum/Use.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/DataHandlerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/StringUtils.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/QSHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/holders/ShortWrapperHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/AdminClient.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/DocumentSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/encoding/TypeMapping.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/SunJSSESocketFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/NonBlockingBufferedInputStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/java/Handler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPFaultBuilder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/BaseTypeMapping.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/FaultInfo.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/ImageDataHandlerDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/compiler/CompilerError.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Chain.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/OctetStreamDataHandlerSerializer.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/DocumentDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPDocumentImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/MimeMultipartDataHandlerDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/TargetedChain.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/compiler/CompilerFactory.java

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/JWSHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/script/Script.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/JAXRPCException.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/Element.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Name.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDDocumentation.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/schema/SchemaVersion2001.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPFaultCodeBuilder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/RPCHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/BeanDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/RPCElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/NamespaceConstants.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/SourceDataHandlerSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/LockableHashtable.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/messaging/URLEndpoint.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/gen/Generator.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/SimpleAuthorizationHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/java/JavaSender.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/Base64SerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/server/Transport.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/Callback.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/mail/MailSender.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/NMTokens.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaRMIPProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/MimeHeaders.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/HandlerChainImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/AttachmentUtils.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/Name.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/CLOption.java
*

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/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/SimpleAuthenticationHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/monitor/SOAPMonitorService.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Token.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDOperation.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/namespace/QName.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/providers/java/RMIPProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/HTTPTransport.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDTargetedChain.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/providers/java/CORBAProvider.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/Service.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/encoding/UTF8Encoder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/RPCParam.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/strategies/InvocationStrategy.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/urls/URLHashSet.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Entities.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/MapSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/JSSocketFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/Deserializer.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaFaultWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/UndefinedDelegate.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/ImageHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/server/AxisServer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/Target.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/MultiPartRelatedInputStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/QSLHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPConnection.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/encoding/DeserializerFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/ObjectHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-

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jar/org/apache/axis/components/compiler/Javac.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/TeeOutputStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/AdminServlet.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPBodyElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/TypeMappingDelegate.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/ShortHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/HandlerIterationStrategy.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/DeserializerTarget.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/BaseDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/PortTypeEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/beans/BeanPropertyDescriptor.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/DefaultJAXRPC11TypeMappingImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/constants/Scope.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/ByteHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/holders/LongWrapperHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/QNameDeserializerFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/DefaultSOAPEncodingTypeMappingImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/QNameDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/DocumentSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDTypeMapping.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/encoding/XMLEncoder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/AttributeSerializationContextImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/MessageContext.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/beans/CLOptionDescriptor.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/beans/ParserControl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/Holder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-

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jar/org/apache/axis/wsdl/gen/NoopGenerator.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/ServiceEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/HandlerRegistry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/strategies/WSDLGenStrategy.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/ErrorHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/java/JavaTransport.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/GeneratedFileInfo.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/EnumSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/FieldTarget.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/CDATAImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/encoding/XMLType.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/ImageDataSource.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaEnumTypeWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/image/JimiIO.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Constants.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/providers/java/MsgProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/holders/BooleanWrapperHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/server/JNDIAxisServerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/holders/IntegerWrapperHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/encoding/SerializationContext.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/OctetStreamDataHandlerDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPBodyElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/HTTPSender.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/IOUtils.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/AttachmentPart.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/SourceDataHandlerDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-

```



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jar/org/apache/axis/encoding/ser/Base64Deserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Utils/Messages.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/CommentImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/Utils.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/HexDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/TextSerializationContext.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/JettyAxisServer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/CollectionElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/holders/DoubleWrapperHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDDeployment.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/WSDL2Java.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/mail/MailWorker.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/Parameter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/SchemaHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/IntHolder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/enum/Scope.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/ElementSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/JAFDataHandlerDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaMsgProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/MimeMultipartDataHandlerSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/client/async/IAsyncCallback.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/encoding/XMLEncoderFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/CalendarDeserializer.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/Node.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/AxisEngine.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/ChunkedOutputStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-

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jar/org/apache/axis/attachments/SourceDataSource.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/BeanPropertyTarget.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/logger/LogFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/DefaultAuthenticator.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/BeanSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/AttachmentPart.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/ByteArrayHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/MimeHeaders.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/LogMessage.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/gen/GeneratorFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/Transport.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/Namespaces.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaBeanHelperWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/BaseFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/providers/java/RPCProvider.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/bytecode/ParamNameExtractor.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDChain.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/server/DefaultAxisServerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/DefaultCommonsHTTPClientProperties.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/MimeInfo.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/CalendarSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/JAFDataHandlerSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/SocketHolder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPHeaderElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/SimpleAxisServer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Part.java

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\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/StringHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/encoding/TypeMappingRegistry.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/TypeMappingRegistry.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/soap/SOAPService.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/DeserializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaUndeployWriter.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDDocument.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/UnsignedLong.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/MD5AttachHandler.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/Base64Serializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/security/SecurityProvider.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/server/AxisServerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/local/LocalSender.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPBody.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Notation.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/CLUtil.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/threadpool/ThreadPool.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/AttachmentsImpl.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/BaseSerializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/SimpleProvider.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/EnvelopeBuilder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/i18n/RB.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/SOAPMonitorHandler.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/net/TransportClientProperties.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/QSWSDLHandler.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-



jar/org/apache/axis/deployment/wsdd/WSDDParameter.java

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\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/management/jmx/DeploymentQuery.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/management/jmx/WSDDServiceWrapper.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/management/jmx/DeploymentAdministrator.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/management/jmx/WSDDTransportWrapper.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/management/jmx/DeploymentQueryMBean.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/management/jmx/DeploymentAdministratorMBean.java

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jar/org/apache/axis/encoding/ser/xbeans/XmlBeanDeserializerFactory.java

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- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/HappyClient.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/AxisHTTPSessionListener.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/ServiceAdmin.java
- \*
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/ServiceAdministratorMBean.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/Registrar.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/AutoRegisterServlet.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/ServiceAdministrator.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/ByteArrayOutputStream.java

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jar/org/apache/axis/encoding/ser/BeanDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/fromJava/Types.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDJAXRPCHandlerInfoChain.java
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/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/cache/ClassCache.java
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Found in path(s):

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/encoding/ser/castor/AxisContentHandler.java  
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Found in path(s):

- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/InvokeException.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/InvokeTimeoutException.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSSender.java
- \*
- /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/Handler.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnectorManager.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSURLHelper.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSTransport.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnectorFactory.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/JMSVendorAdapterFactory.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/MapUtils.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/SimpleJMSListener.java
- \*
- /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/SonicMQVendorAdapter.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSURLConnection.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/JNDIVendorAdapter.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnector.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/TopicConnector.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/JMSVendorAdapter.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSEndpoint.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConstants.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-



jar/org/apache/axis/transport/jms/QueueConnector.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/transport/jms/Subscription.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/transport/jms/SimpleJMSWorker.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/components/jms/BeanVendorAdapter.java

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\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/handlers/soap/MustUnderstandChecker.java

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\*  
\*  
\* Original author: Jonathan Colwell  
\*/

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\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDNonFatalException.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/SimpleValueSerializer.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/ServiceDesc.java  
\*  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/UnsignedByteHolder.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utis/bytecode/ChainedParamReader.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPConnectionImpl.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/DurationHolder.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utis/JWSCClassLoader.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/OperationDesc.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/WSDDEngineConfiguration.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-



```

jar/org/apache/axis/configuration/EngineConfigurationFactoryFinder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/SecureSocketFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/URIHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/YearMonthHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/JavaServiceDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/TimeHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/castor/CastorSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/TokenHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/UnsignedLongHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/SocketFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/ServletEndpointContextImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Year.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/EngineConfigurationFactoryDefault.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/ServletEngineConfigurationFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/CommonsHTTPClientPropertiesFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPHeader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/Detail.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPFaultElement.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/AttributeDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/MonthHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/NonNegativeIntegerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/BasicClientConfig.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/YearHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/DateHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/PositiveIntegerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/AxisServiceConfigImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDFault.java
*

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/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/FieldDesc.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/MonthDay.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/collections/SequencedHashMap.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/net/SocketFactoryFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/EngineConfigurationFactoryServlet.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPConnectionFactoryImpl.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/SimpleSerializerFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPConstants.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/Text.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/EngineConfiguration.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/DayHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/OctetStreamHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/MonthDayHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Utils/SessionUtils.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/ConfigurationException.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/UnsignedShortHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/HexBinaryHolder.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAP11Constants.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/AxisServletBase.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPBody.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/NonPositiveIntegerHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAP12Constants.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/NegativeIntegerHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPFaultReasonBuilder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/MessageFactoryImpl.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPFactoryImpl.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Month.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-



```

jar/org/apache/axis/encoding/ser/castor/CastorDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/bytecode/ClassReader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/UnsignedIntHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/NormalizedStringHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/YearMonth.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/bytecode/ParamReader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/BasicServerConfig.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/TransportClientPropertiesFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Day.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/TypeDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Time.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/EngineConfigurationFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/ElementDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/DetailEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/DefaultEngineConfigurationFactory.java
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* Original author: Jonathan Colwell
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```



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## 1.133 python-certifi 2020.12.5

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline



functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Any executables

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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# 1.138 kmod 28

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if



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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,



whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 1.143 boost 1.75.0

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Julian Seward, [jseward@acm.org](mailto:jseward@acm.org)  
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--- end ---

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////

```
[#mpl]
# MPL Support, <boost/mpi11/mpi.hpp>
:toc:
:toc-title:
:idprefix:
```

The header ``<boost/mpi11/mpi.hpp>``, when included, defines the  
necessary support infrastructure for ``mp_list`` and ``std::tuple``  
to be valid link:../../../../libs/mpi[MPL] sequences.

NOTE: ``mpi.hpp`` is not included by ``<boost/mpi11/mpi.hpp>``.

It's also possible to only enable support for ``mp_list`` by  
including ``<boost/mpi11/mpi_list.hpp>``, and for ``std::tuple``  
by including ``<boost/mpi11/mpi_tuple.hpp>``. This may be required  
because some libraries, such as Boost.Fusion, contain their own MPL  
support for ``std::tuple``, which conflicts with Mp11's one.

<!DOCTYPE html>

<html>

<head></head>

<body>

<h3>

Copyright Test

</h3>

<p class="copyright">

1963, 1964, 1965 Jane Doe



```
</p>
<p class="copyright">
  2018 Joe Blow, John Coe
</p>
<p class="copyright">
  1977, 1985 Someone else
</p>
</body>
</html>
```

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
```

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# 1.147 dosfs-tools 4.2

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\* This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50

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| Gallium code   | src/gallium/       | MIT            |
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|                | GL/glxt.h          | Khronos        |
|                | GL/wglxt.h         | Khronos        |
|                | KHR/khrplatform.h  | Khronos        |

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include/GL/gl.h :

Mesa 3-D  
graphics library

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include/GL/glxt.h  
include/GL/wglxt.h :



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Other developers who have contributed code are:

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## 1.152 hd-parm 9.60

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.



(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.



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Ty Coon, President of Vice

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The

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.165 glibc 2.33

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Any executables

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## 1.170 grep 3.6

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Version 3, 29 June 2007

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# 1.171 pcre 8.44

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Written by: Philip Hazel  
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## 1.172 util-linux 2.36.2

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NR START END SECTORS SIZE NAME UUID

|   |       |       |      |      |             |
|---|-------|-------|------|------|-------------|
| 1 | 32    | 7679  | 7648 | 3.7M | 8f8378c0-01 |
| 2 | 7680  | 16383 | 8704 | 4.3M | 8f8378c0-02 |
| 5 | 7936  | 12799 | 4864 | 2.4M |             |
| 6 | 12544 | 16127 | 3584 | 1.8M |             |

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```
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43mI,5WEV @@ WEV @mImImIAmImImI0mImImI\*mImI  
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# 1.175 kerberos 1.16.1

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- lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c
- lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h
- lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c
- lib/krb5/kadm5/kadm\_host\_srv\_names.c
- lib/krb5/kdb/kdb\_convert.c
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- lib/libgss/g\_exp\_sec\_context.c



lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
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lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in  
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation,



including  
the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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2000-01-14

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jar/org/jvnet/mimepull/ChunkInputStream.java

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limitations under the License.

# 1.181 sqlite 3.35.0

## 1.181.1 Available under license :

No license file was found, but licenses were detected in source scan.

<p>Yes. SQLite is in the public domain. No claim of ownership is made

Found in path(s):

\* /opt/cola/permits/1151440481\_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/faq.tcl

No license file was found, but licenses were detected in source scan.

/opt/cola/permits/1151440481\_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/art/SQLite.eps:  
binary file matches

Found in path(s):

\* /bin/grep

No license file was found, but licenses were detected in source scan.

public domain.</li>



Found in path(s):

\* /opt/cola/permits/1151440481\_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/changes.tcl

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%define name sqlite

%define version SQLITE\_VERSION

%define release 1

Name: % {name}

Summary: SQLite is a C library that implements an embeddable SQL database engine

Version: % {version}

Release: % {release}

Source: % {name}-% {version}.tar.gz

Group: System/Libraries

URL: <http://www.hwaci.com/sw/sqlite/>

License: Public Domain

BuildRoot: % {\_tmppath}/% {name}-% {version}-root

%description

SQLite is a C library that implements an embeddable SQL database engine.

Programs that link with the SQLite library can have SQL database access without running a separate RDBMS process. The distribution comes with a standalone command-line access program (sqlite) that can be used to administer an SQLite database and which serves as an example of how to use the SQLite library.

%package -n % {name}-devel

Summary: Header files and libraries for developing apps which will use sqlite

Group: Development/C

Requires: % {name} = % {version}-% {release}

%description

-n % {name}-devel

The sqlite-devel package contains the header files and libraries needed to develop programs that use the sqlite database library.

%prep

%setup -q -n % {name}

%build

CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=% {\_prefix}

make

make doc

%install

install -d \$RPM\_BUILD\_ROOT/% {\_prefix}



```
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}
```

%clean

```
rm -fr $RPM_BUILD_ROOT
```

%files

%defattr(-, root, root)

%{\_libdir}/\*.so\*

%{\_bindir}/\*

%files -n %{name}-devel

%defattr(-, root, root)

%{\_libdir}/pkgconfig/sqlite.pc

%{\_libdir}/\*.a

%{\_libdir}/\*.la

%{\_includedir}/\*

%doc doc/\*

Found in path(s):

\* /opt/cola/permits/1151440481\_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/spec.template

No license file was found, but licenses were detected in source scan.

/\*

\* This code implements the MD5 message-digest algorithm.

\* The algorithm is due to Ron Rivest. This code was

\* written by Colin Plumb in 1993, no copyright is claimed.

\* This code is in the public domain; do with it what you wish.

\*

\* Equivalent code is available from RSA Data Security, Inc.

\* This code has been tested against that, and is equivalent,

\* except that you don't need to include two pages of legalese

\* with every copy.

\*

\* To compute the message digest of a chunk of bytes, declare an

\* MD5Context structure, pass it to MD5Init, call MD5Update as

\* needed on buffers full of bytes, and then call MD5Final, which

\* will fill a supplied 16-byte array with the digest.

\*/

Found in path(s):

\* /opt/cola/permits/1151440481\_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/md5.c

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/\* The IncrKey opcode is only applied to keys generated by

\*\* MakeKey or MakeIdxKey and the results of those operands



```
** are always dynamic strings or zShort[] strings. So we
** are always free to modify the string in place.
*/
```

Found in path(s):

```
*/opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/vdbe.c
```

No license file was found, but licenses were detected in source scan.

```
# 2001 September 15
```

```
#
```

```
# The author disclaims copyright to this source code. In place of
```

```
# a legal notice, here is a blessing:
```

```
#
```

```
# May you do good and not evil.
```

```
# May you find forgiveness for yourself and forgive others.
```

```
# May you share freely, never taking more than you give.
```

```
#
```

```
*****
```

```
# This file implements regression tests for SQLite library. The
```

```
# focus of this file is testing built-in functions.
```

```
#
```

```
# $Id: func.test,v 1.16.2.2 2004/07/18 21:14:05 drh Exp $
```

```
set testdir [file dirname $argv0]
```

```
source $testdir/tester.tcl
```

```
# Create a table to work with.
```

```
#
```

```
do_test func-0.0 {
```

```
execsql {CREATE TABLE tbl1(t1 text)}
```

```
foreach word {this program is free software} {
```

```
    execsql "INSERT INTO tbl1 VALUES('$word')"
```

```
}
```

```
execsql {SELECT t1 FROM tbl1 ORDER BY t1}
```

```
} {free is program software this}
```

```
do_test func-0.1 {
```

```
execsql {
```

```
    CREATE TABLE t2(a);
```

```
INSERT INTO t2 VALUES(1);
```

```
INSERT INTO t2 VALUES(NULL);
```

```
INSERT INTO t2 VALUES(345);
```

```
INSERT INTO t2 VALUES(NULL);
```

```
INSERT INTO t2 VALUES(67890);
```

```
SELECT * FROM t2;
```

```
}
```

```
} {1 {} 345 {} 67890}
```



```

# Check out the length() function
#
do_test func-1.0 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
  set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
  set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
  execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
           ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
  execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
}
{fr is pr so th}
do_test func-2.1 {
  execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
  execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
  execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
  execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
  execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}

```



```

do_test func-2.8 {
    execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
    execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
    execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

```

```

# Only do the following tests if TCL has UTF-8 capabilities and
# the

```

```

    UTF-8 encoding is turned on in the SQLite library.

```

```

#
if {[sqlite -encoding]==="UTF-8" && "\u1234"!="u1234"} {

```

```

# Put some UTF-8 characters in the database

```

```

#
do_test func-3.0 {
    execsql {DELETE FROM tbl1}
    foreach word "contains UTF-8 characters hi\u1234ho" {
        execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
    execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
    execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
    execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
    execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
    execsql {SELECT
        substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {

```



```

execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
    execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
    execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
    execsql {DELETE FROM tbl1}
    foreach word {this program is free software} {
        execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End [sqlite -encoding]==UTF-8 and \u1234!=u1234

# Test the abs() and round() functions.
#
do_test func-4.1 {
    execsql {
        CREATE TABLE t1(a,b,c);
        INSERT INTO t1 VALUES(1,2,3);
        INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
        INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
do_test func-4.2 {
    catchsql {SELECT abs() FROM t1}
} {1 {wrong number
of arguments to function abs()}}
do_test func-4.3 {
    catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
    catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.67890 5}}
do_test func-4.4.1 {
    execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
    execsql {SELECT abs(t1) FROM tbl1}
} {this program is free software}

do_test func-4.5 {
    catchsql {SELECT round(a,b,c) FROM t1}

```



```

} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
  catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.00 1.23 2.00}}
do_test func-4.7 {
  catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2 1 -2}}
do_test func-4.8 {
  catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3 -12346 -5}}
do_test func-4.9 {
  catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.000}}
do_test func-4.10 {
  catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.000y}}
do_test func-4.11
{
  catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
  execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.00 nil 345.00 nil 67890.00}
do_test func-4.13 {
  execsql {SELECT round(t1,2) FROM tbl1}
} {0.00 0.00 0.00 0.00 0.00}

```

# Test the upper() and lower() functions

#

```

do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
do_test func-5.4 {
  catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

```

# Test the coalesce() and nullif() functions

#

```

do_test func-6.1 {

```



```

execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test
func-6.2 {
execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
do_test func-8.1 {
execsql {
    SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
}
} {68236 3 22745.33 1 67890 5}
do_test func-8.2 {
execsql {
    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t2;
}
} {z+67890abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ}
do_test func-8.3 {
execsql {
    CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t3;
}
} {z+1abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ}
do_test
func-8.4 {
execsql {
    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t3;
}
} {z+67890abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ}

```



```

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
    execsql {
        SELECT random() is not null;
    }
} {1}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
db close
set ::DB [sqlite db test.db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
    catchsql {
        SELECT testfunc(NULL,NULL);
    }
} {1 {first argument to test function may not be NULL}}
do_test func-10.2 {
    execsql {
        SELECT testfunc(
            'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
            'int', 1234
        );
    }
} {1234}
do_test func-10.3 {
    execsql {
        SELECT
        testfunc(
            'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
            'string', NULL
        );
    }
} {}
do_test func-10.4 {
    execsql {
        SELECT testfunc(
            'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
            'double', 1.234
        );
    }
} {1.234}
do_test func-10.5 {
    execsql {

```



```

SELECT testfunc(
  'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
  'int', 1234,
  'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
  'string', NULL,
  'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
  'double', 1.234,
  'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
  'int', 1234,
  'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
  'string', NULL,
  'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
  'double', 1.234
);
}
} {1.234}

```

# Test the built-in sqlite\_version(\*) SQL function.

#

do\_test func-11.1 {

execsql {

SELECT sqlite\_version(\*);

}

} [sqlite -version]

finish\_test

Found in path(s):

\* /opt/cola/permits/1151440481\_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/test/func.test

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\*\* The "printf" code that follows dates from the 1980's. It is in  
 \*\* the public domain. The original comments are included here for  
 \*\* completeness. They are very out-of-date but might be useful as  
 \*\* an historical reference. Most of the "enhancements" have been backed  
 \*\* out so that the functionality is now the same as standard printf().

\*\*

\*\*\*\*\*

\*\*

\*\* The following modules is an enhanced replacement for the "printf" subroutines  
 \*\* found in the standard C library. The following enhancements are  
 \*\* supported:

\*\*

\*\* + Additional functions. The standard set of "printf" functions  
 \*\* includes printf, fprintf, sprintf, vprintf, vfprintf, and  
 \*\* vsprintf. This module adds the following:



```

**
**      * snprintf -- Works like sprintf, but has an extra argument
**                  which is the size of the buffer written
to.
**
**      * mprintf -- Similar to sprintf. Writes output to memory
**                  obtained from malloc.
**
**      * xprintf -- Calls a function to dispose of output.
**
**      * nprintf -- No output, but returns the number of characters
**                  that would have been output by printf.
**
**      * A v- version (ex: vsnprintf) of every function is also
**                  supplied.
**
** + A few extensions to the formatting notation are supported:
**
**      * The "=" flag (similar to "-") causes the output to be
**                  be centered in the appropriately sized field.
**
**      * The %b field outputs an integer in binary notation.
**
**      * The %c field now accepts a precision. The character output
**                  is repeated by the number of times the precision specifies.
**
**      * The %' field works like %c, but takes as its character the
**                  next character of the
format string, instead of the next
**                  argument. For example, printf("%.78'") prints 78 minus
**                  signs, the same as printf("%.78c", '-').
**
** + When compiled using GCC on a SPARC, this version of printf is
**                  faster than the library printf for SUN OS 4.1.
**
** + All functions are fully reentrant.
**
**/

```

Found in path(s):

\* /opt/cola/permits/1151440481\_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/printf.c

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# 1.183 open-ldap 2.4.58

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# 1.192 bigdecimal 3.0.0

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## 1.193 minitest 5.14.2

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= minitest/{test,spec,mock,benchmark}

home :: <https://github.com/seattlerb/minitest>

bugs :: <https://github.com/seattlerb/minitest/issues>

rdoc :: <http://docs.seattlerb.org/minitest>

vim :: <https://github.com/sunaku/vim-ruby-minitest>

emacs:: <https://github.com/arthurnn/minitest-emacs>

== DESCRIPTION:



minitest provides a complete suite of testing facilities supporting TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were allowed to choose our testing frameworks. Kirk Haines and I were paired up and we cracked open the code for a few test frameworks...

I MUST say that minitest is *\*very\** readable / understandable compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr  
Szotkowski

Comparing to rspec:



rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

- \* minitest/autorun - the easy and explicit way to run all your tests.
- \* minitest/test - a very fast, simple, and clean test system.
- \* minitest/spec - a very fast, simple, and clean spec system.
- \* minitest/mock - a simple and clean mock/stub system.
- \* minitest/benchmark - an awesome way to assert your algorithm's performance.
- \* minitest/pride - show your pride in testing!
- \* Incredibly small and fast runner, but no bells and whistles.
- \* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design\_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

```
class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end
```

=== Unit tests

Define your tests as methods beginning with +test\_+.

```
require "minitest/autorun"
```

```
class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
```



```

end

def test_that_kitty_can_eat
  assert_equal "OHAI!", @meme.i_can_has_cheezburger?
end

def test_that_it_will_not_blend
  refute_match /^no/i, @meme.will_it_blend?
end

def test_that_will_be_skipped
  skip "test this later"
end
end

=== Specs

require "minitest/autorun"

describe Meme do
  before do
    @meme = Meme.new
  end

  describe "when asked about cheeseburgers" do
    it "must respond positively" do
      _(@meme.i_can_has_cheezburger?).must_equal "OHAI!"
    end
  end

  describe "when asked about blending possibilities" do
    it "won't say no"
  end
end

  _(@meme.will_it_blend?).wont_match /^no/i
end
end
end

```

For matchers support check out:

- \* <https://github.com/wojtekmach/minitest-matchers>
- \* [https://github.com/rmm5t/minitest-matchers\\_vaccine](https://github.com/rmm5t/minitest-matchers_vaccine)

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!



```
require "minitest/benchmark" if ENV["BENCH"]
```

```
class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end
```

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match `Bench(mark)?`.

```
describe "Meme Benchmark" do
  if ENV["BENCH"] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do

        @obj.my_algorithm(n)
      end
    end
  end
end
```

outputs something like:

```
# Running benchmarks:

TestBlah 100 1000 10000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932
```

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at <http://www.martinfowler.com/bliki/TestDouble.html>:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

```
class MemeAsker
```



```

def initialize(meme)
  @meme = meme
end

def ask(question)
  method = question.tr(" ", "_") + "?"
  @meme.__send__(method)
end
end

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated
question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value

      @meme_asker.ask "will it blend"

      @meme.verify
    end
  end
end

```

#### ==== Multi-threading and Mocks

Minitest mocks do not support multi-threading. If it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

```

def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end

```

#### === Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at <http://www.martinfowler.com/bliki/TestDouble.html>:

"Stubs provide canned answers to calls made during the test".



Minitest's stub method overrides a single method for the duration of the block.

```
def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

  Time.stub :now, Time.at(0) do # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```
def obj_under_test.fake_method
  ...
end
```

### === Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685
```

```
# Running:
```

```
..... (etc)
```

```
Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.
```

```
155 runs, 317 assertions, 0 failures, 0 errors, 0 skips
```

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with `++-help+`:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
-h, --help          Display this help.
-s, --seed SEED     Sets random seed. Also via env. Eg: SEED=n rake
-v, --verbose       Verbose. Show progress processing files.
-n, --name PATTERN  Filter run on /regexp/ or string.
```



-e, --exclude PATTERN      Exclude /regexp/ or string from run.

Known extensions: pride, autotest

-p, --pride                  Pride. Show your testing pride!  
-a, --autotest              Connect to autotest server.

You can set up a rake task to run all your tests by adding this to your Rakefile:

```
require "rake/testtask"
```

```
Rake::TestTask.new(:test) do |t|  
  t.libs << "test"  
  t.libs << "lib"  
  t.test_files = FileList["test/**/test_*.rb"]  
end
```

```
task :default  
=> :test
```

## == Writing Extensions

To define a plugin, add a file named minitest/XXX\_plugin.rb to your project/gem. That file must be discoverable via ruby's LOAD\_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find\_files. It will then try to call +plugin\_XXX\_init+ during startup. The option processor will also try to call +plugin\_XXX\_options+ passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

```
# minitest/bogus_plugin.rb:  
  
module Minitest  
  def self.plugin_bogus_options(opts, options)  
    opts.on "--myci", "Report results to my CI" do  
      options[:myci] = true  
      options[:myci_addr] = get_myci_addr  
      options[:myci_port] = get_myci_port  
    end  
  end  
  
  def self.plugin_bogus_init(options)  
    self.reporter << MyCI.new(options) if options[:myci]  
  end  
end
```

## === Adding custom reporters



## Minitest

uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the `init_plugins` phase. As we saw in `+plugin_bogus_init+` above, you simply add your reporter instance to the composite via `<tt><<</tt>`.

`+AbstractReporter+` defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

`start` :: Called when the run has started.

`record` :: Called for each result, passed or otherwise.

`report` :: Called at the end of the run.

`passed?` :: Called to see if you detected any problems.

Using our example above, here is how we might implement `MyCI`:

```
# minitest/bogus_plugin.rb
```

```
module Minitest
```

```
  class MyCI < AbstractReporter
```

```
    attr_accessor :results, :addr, :port
```

```
    def initialize options
```

```
      self.results = []
```

```
      self.addr = options[:myci_addr]
```

```
      self.port = options[:myci_port]
```

```
    end
```

```
    def record result
```

```
      self.results
```

```
<< result
```

```
    end
```

```
    def report
```

```
      CI.connect(addr, port).send_results self.results
```

```
    end
```

```
  end
```

```
  # code from above...
```

```
end
```

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

```
class Worker < SimpleDelegator
```



```

def work
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    _(@worker).must_respond_to :work
  end
end

```

outputs a failure:

```

1) Failure:
Worker#test_0001_must respond to work [bug11.rb:16]:
Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

```

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method\_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test fails.

You can bypass `SimpleDelegate#method_missing` by extending the worker with `Minitest::Expectations`. You can either do that in your setup at the instance level, like:

```

before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end

```

or you can extend the Worker class (within the test file!), like:

```

class Worker
  include ::Minitest::Expectations
end

```

=== How to share code across test classes?

Use a module. That's exactly what they're for:

```

module UsefulStuff
  def useful_method

```



```

    # ...
  end
end

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end

```

Remember, +describe+ simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

===

How to run code before a group of tests?

Use a constant with begin...end like this:

```

describe Blah do
  SETUP = begin
    # ... this runs once when describe Blah starts
  end
  # ...
end

```

This can be useful for expensive initializations or sharing state. Remember, this is just ruby code, so you need to make sure this technique and sharing state doesn't interfere with your tests.

=== Why am I seeing `uninitialized constant MiniTest::Test (NameError)`?

Are you running the test with Bundler (e.g. via `bundle exec`)? If so, in order to require minitest, you must first add the `gem 'minitest'` to your Gemfile and run +bundle+. Once it's installed, you should be able to require minitest and run your tests.

== Prominent Projects using Minitest:

- \* arel
- \* journey
- \* mime-types
- \* nokogiri
- \* rails (active\_support et al)



- \* rake
- \* rdoc
- \* ...and of course, everything from seattle.rb...

== Developing Minitest:

Minitest requires {Hoe}[<https://rubygems.org/gems/hoer>].

===

Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform.

Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```
--- expected
+++ actual
@@ -1,2 +1,3 @@
# encoding: UTF-8
-"Expected /\w+/ to not match \"blah blah blah\"."
+"Expected /\w+/ to not match # encoding: UTF-8
+"\"blah blah blah\"."
```

To check your current encoding, run:

```
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of '-Eutf-8'. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command).

Once

you've got it successfully outputting UTF-8, use the same setting when running rake in Minitest.

=== Minitest's own tests require GNU (or similar) diff.

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:



4) Failure:

```
TestMinitestUnitTestCase#test_assert_equal_different_long
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
Expected: "--- expected\n+++ actual\n@@ -1 +1 @@\n-
\"hahahahahahahahahahahahahahahahahahahahahaha\"\\n+\"blahblahblahblahblahblahblahblahblahblah\\\"\\n\"
Actual: "Expected: \"hahahahahahahahahahahahahahahahahahahahahaha\"\\n Actual:
\"blahblahblahblahblahblahblahblahblahblahblah\\\""
```

5) Failure:

```
TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
Expected:
"No visible difference in the Hash#inspect output.\nYou should look at the implementation of #== on Hash or its
members.\n
{1=>#<Object:0xXXXXXX>}"
Actual: "Expected: {1=>#<Object:0x00000003ba0470>}\n Actual: {1=>#<Object:0x00000003ba0448>}"
```

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don't, you can download GNU diffutils from <http://gnuwin32.sourceforge.net/packages/diffutils.htm> (make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

```
diff.exe -v
```

There are multiple lines of output, the first should be something like:

```
diff (GNU diffutils) 2.8.1
```

If you are using PowerShell make sure you run diff.exe, not just diff, which will invoke the PowerShell built in function.

== Known Extensions:

capbara\_minitest\_spec :: Bridge between Capybara RSpec matchers and Minitest::Spec expectations (e.g.

```
<tt>page.must_have_content("Title")</tt>).
```

color\_pound\_spec\_reporter :: Test names print Ruby Object types in color with your Minitest Spec style tests.

minispec-metadata :: Metadata for describe/it blocks & CLI tag filter.  
E.g. <tt>it "requires JS driver", js: true do</tt> &  
<tt>ruby test.rb --tag js</tt> runs tests tagged :js.

minispec-rails :: Minimal support to use Spec style in Rails 5+.

mini-apivore :: for swagger based automated API testing.



minitest-around       :: Around block for minitest. An alternative to  
                          setup/teardown dance.

minitest-assert\_errors   :: Adds Minitest assertions to test for errors raised  
                          or not raised by Minitest itself.

minitest-autotest       :: autotest is a continuous testing facility meant to  
                          be used during development.

minitest-bacon  
                          :: minitest-bacon extends minitest with bacon-like  
                          functionality.

minitest-bang           :: Adds support for RSpec-style let! to immediately  
                          invoke let statements before each test.

minitest-bisect         :: Helps you isolate and debug random test failures.

minitest-blink1\_reporter   :: Display test results with a Blink1.

minitest-capistrano      :: Assertions and expectations for testing  
                          Capistrano recipes.

minitest-capybara        :: Capybara matchers support for minitest unit and  
                          spec.

minitest-chef-handler     :: Run Minitest suites as Chef report handlers

minitest-ci             :: CI reporter plugin for Minitest.

minitest-context         :: Defines contexts for code reuse in Minitest  
                          specs that share common expectations.

minitest-debugger        :: Wraps assert so failed  
assertions drop into  
                          the ruby debugger.

minitest-display         :: Patches Minitest to allow for an easily  
                          configurable output.

minitest-documentation    :: Minimal documentation format inspired by rspec's.

minitest-doc\_reporter    :: Detailed output inspired by rspec's documentation  
                          format.

minitest-emoji          :: Print out emoji for your test passes, fails, and  
                          skips.

minitest-english         :: Semantically symmetric aliases for assertions and  
                          expectations.

minitest-excludes        :: Clean API for excluding certain tests you  
                          don't want to run under certain conditions.

minitest-fail-fast        :: Reimplements RSpec's "fail fast" feature

minitest-filecontent     :: Support unit tests with expectation results in files.  
                          Differing results will  
                          be stored again in files.

minitest-filesystem      :: Adds assertion and expectation to help testing  
                          filesystem contents.

minitest-firemock        :: Makes your Minitest mocks more resilient.

minitest-focus          :: Focus on one test at a time.

minitest-gcstats         :: A minitest plugin that adds a report of the top  
                          tests by number of objects allocated.

minitest-global\_expectations:: Support minitest expectation methods for all objects

minitest-great\_expectations:: Generally useful additions to minitest's  
                          assertions and expectations.



minitest-growl :: Test notifier for minitest via growl.  
 minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!  
 minitest-have\_tag :: Adds Minitest assertions to test for the existence of  
     HTML tags, including contents, within a provided string.  
 minitest-hooks ::  
     Around and before\_all/after\_all/around\_all hooks  
 minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs  
 minitest-implicit-subject :: Implicit declaration of the test subject.  
 minitest-instrument :: Instrument ActiveSupport::Notifications when  
     test method is executed.  
 minitest-instrument-db :: Store information about speed of test execution  
     provided by minitest-instrument in database.  
 minitest-junit :: JUnit-style XML reporter for minitest.  
 minitest-keyword :: Use Minitest assertions with keyword arguments.  
 minitest-libnotify :: Test notifier for minitest via libnotify.  
 minitest-line :: Run test at line number.  
 minitest-logger :: Define assert\_log and enable minitest to test log messages.  
     Supports Logger and Log4r::Logger.  
 minitest-macruby :: Provides extensions to minitest for macruby  
 UI  
     testing.  
 minitest-matchers :: Adds support for RSpec-style matchers to  
     minitest.  
 minitest-matchers\_vaccine :: Adds assertions that adhere to the matcher spec,  
     but without any expectation infections.  
 minitest-metadata :: Annotate tests with metadata (key-value).  
 minitest-mock\_expectations :: Provides method call assertions for minitest.  
 minitest-mongoid :: Mongoid assertion matchers for Minitest.  
 minitest-must\_not :: Provides must\_not as an alias for wont in  
     Minitest.  
 minitest-optional\_retry :: Automatically retry failed test to help with flakiness.  
 minitest-osx :: Reporter for the Mac OS X notification center.  
 minitest-parallel\_fork :: Fork-based parallelization  
 minitest-parallel-db :: Run tests in parallel with a single database.  
 minitest-power\_assert :: PowerAssert for Minitest.  
 minitest-predicates  
     :: Adds support for .predicate? methods.  
 minitest-profile :: List the 10 slowest tests in your suite.  
 minitest-rails :: Minitest integration for Rails 3.x.  
 minitest-rails-capybara :: Capybara integration for Minitest::Rails.  
 minitest-reporters :: Create customizable Minitest output formats.  
 minitest-rg :: Colored red/green output for Minitest.  
 minitest-rspec\_mocks :: Use RSpec Mocks with Minitest.  
 minitest-server :: minitest-server provides a client/server setup  
     with your minitest process, allowing your test  
     run to send its results directly to a handler.  
 minitest-sequel :: Minitest assertions to speed-up development and  
     testing of Ruby Sequel database setups.



minitest-shared\_description :: Support for shared specs and shared spec subclasses

minitest-should\_syntax  
:: RSpec-style <tt>x.should == y</tt> assertions for Minitest.

minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)

minitest-snail :: Print a list of tests that take too long

minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.

minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to\_include :celery\_man).

minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.

minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.

minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.

minitest-stately :: Find leaking state between tests

minitest-stub\_any\_instance  
:: Stub any instance of a method on the given class for the duration of a block.

minitest-stub-const :: Stub constants for the duration of a block.

minitest-tags :: Add tags for minitest.

minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.

minitest-vcr :: Automatic cassette management with Minitest::Spec and VCR.

minitest\_log :: Adds structured logging, data explication, and verdicts.

minitest\_owrapper :: Get tests results as a TestResult object.

minitest\_should :: Shoulda style syntax for minitest test::unit.

minitest\_tu\_shim :: Bridges between test/unit and minitest.

mongoid-minitest :: Minitest matchers for Mongoid.

mutant-minitest :: Minitest integration for mutant.

pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.

rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

- \* assay-minitest
- \* detroit-minitest
- \* em-minitest-spec
- \* flexmock-minitest
- \* guard-minitest



- \* guard-minitest-decisiv
- \* minitest-activemodel
- \* minitest-ar-assertions
- \* minitest-capybara-unit
- \* minitest-colorer
- \* minitest-deluxe
- \* minitest-extra-assertions
- \* minitest-rails-shoulda
- \* minitest-spec
- \* minitest-spec-should
- \* minitest-sugar
- \* spork-minitest

== Minitest related goods

\* minitest/pride fabric: [http://www.spoonflower.com/fabric/3928730-again-by-katie\\_allen](http://www.spoonflower.com/fabric/3928730-again-by-katie_allen)

== REQUIREMENTS:

\* Ruby 2.3+. No magic is involved. I hope.

== INSTALL:

```
sudo gem install minitest
```

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

```
gem "minitest" # ensures you're using the gem, and not the built-in MT
require "minitest/autorun"
```

```
# ... usual testing stuffs ...
```

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find\_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):

\* /opt/cola/permits/1155785544\_1619045316.26/0/minitest-5-14-2-gem/data-tar-gz/README.rdoc

No license file was found, but licenses were detected in source scan.

# for more details.

Found in path(s):

\* /opt/cola/permits/1155785544\_1619045316.26/0/minitest-5-14-2-gem/data-tar-gz/lib/minitest/benchmark.rb

# 1.194 dbm 1.1.0

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## 1.195 tftpy 0.8.0

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## 1.196 libunwind 1.5.0

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# 1.197 pyvmomi 5.5.0.2014.1.1

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pyVmomi  
=====

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The original  
code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (<http://www.speed-soft.de>).



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# 1.199 incremental 21.3.0

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## 1.201 fdisk 2.36.2

### 1.201.1 Available under license :

```
NR START  END SECTORS SIZE NAME UUID
1  32 7679  7648 3.7M   8f8378c0-01
2 7680 16383 8704 4.3M   8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
7zXZF!t/5]oK3&K6Y^
CP#vMOoYL?6]2z({CLYj0
LFIU<>Q&}7!C}e6]]e`M,J}.dE,4hVmp
RsTk!|r!Quo1OE|FfP+A}XBT9 \<
0<P9{>s\36R)m.S(bCb7S<DP(`ka")^oy`r)7I%tU6@AS.SMoOfF3whA!!WIMcK')eJ1F
g\B!W[j>jf_{JPp]oMd3rfQ+}_3<%<6jx{)11D5eg;NtD+~R]w[xiue@F#Em0hu,,x{R7V2!Vq~AG{EX -
"0h*5x)*x\n)#I$*w!:499X1il:"P+=22cmr3J}/0o9nlB?\N&(q=$pPc!ab,6f&v/RS>O./OW[INy(BM~]~uf$Ngl"_W[0;
OXY[aB*"/_U~fQHO(3[b%o )+lq#+_d<QdLd=$1p!h0h6nfN=I+GNRk gKOL3\N3"uGxfIC
zCTjtjSN:$gE11QQ$7*5++V=4Xt9V?r3_Vd2o8h"F8~qM,ZI6=Qgtw|11np#_(+?)zp(;H!E2Nz'WW_WmA,
FSYzE*-exTWFt#|
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1%QsS|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d ;*!;._>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[
BS=)d ;*!;._>KfB }&ea)F~H#@|DExb
Fw=|
;}8SPT"_p;27 *.D-sS|11np#_(~*uM%S61opMG`B=gD7-`rFTvDY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d
;*!;._>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d
;*!;._>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;._>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
```

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 2.5     | 2.4          | 2006 | PSF   | yes                 |
| 2.5.1   | 2.5          | 2007 | PSF   | yes                 |
| 2.5.2   | 2.5.1        | 2008 | PSF   | yes                 |
| 2.5.3   | 2.5.2        | 2008 | PSF   |                     |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| yes   |       |      |     |     |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2   | 3.1   | 2011 | PSF | yes |
| 3.2.1 | 3.2   | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
| 3.3   | 3.2   |      |     |     |
| 2012  | PSF   | yes  |     |     |

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- Wichert Akkerman, 2012/02/02  
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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting  
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
as a successor of a language called ABC. Guido remains Python's  
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for  
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
in Reston, Virginia where he released several versions of the  
software.

In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations (now Zope  
Corporation, see <http://www.zope.com>). In 2001, the Python Software  
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
non-profit organization created specifically to own Python-related  
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|----------------|-----------------|-----------|-------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI   | yes                     |



|                |           |           |            |         |
|----------------|-----------|-----------|------------|---------|
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.2            | 2.1.1     | 2001      | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3          |           |           |            |         |
| 2.1.2          | 2002      | PSF       | yes        |         |
| 2.2.1          | 2.2       | 2002      | PSF        | yes     |
| 2.2.2          | 2.2.1     | 2002      | PSF        | yes     |
| 2.2.3          | 2.2.2     | 2003      | PSF        | yes     |
| 2.3            | 2.2.2     | 2002-2003 | PSF        | yes     |
| 2.3.1          | 2.3       | 2002-2003 | PSF        | yes     |
| 2.3.2          | 2.3.1     | 2002-2003 | PSF        | yes     |
| 2.3.3          | 2.3.2     | 2002-2003 | PSF        | yes     |
| 2.3.4          | 2.3.3     | 2004      | PSF        | yes     |
| 2.3.5          | 2.3.4     | 2005      | PSF        | yes     |
| 2.4            | 2.3       | 2004      | PSF        | yes     |
| 2.4.1          | 2.4       | 2005      | PSF        | yes     |
| 2.4.2          | 2.4.1     | 2005      | PSF        | yes     |
| 2.4.3          | 2.4.2     | 2006      | PSF        | yes     |
| 2.4.4          | 2.4.3     | 2006      | PSF        | yes     |
| 2.5            | 2.4       | 2006      | PSF        | yes     |
| 2.5.1          | 2.5       | 2007      | PSF        | yes     |
| 2.5.2          | 2.5.1     | 2008      | PSF        | yes     |
| 2.5.3          | 2.5.2     | 2008      | PSF        | yes     |
| 2.6            | 2.5       | 2008      | PSF        | yes     |
| 2.6.1          | 2.6       | 2008      | PSF        | yes     |
| 2.6.2          | 2.6.1     | 2009      | PSF        | yes     |
| 2.6.3          | 2.6.2     | 2009      | PSF        | yes     |
| 2.6.4          | 2.6.3     | 2009      | PSF        | yes     |
| 2.6.5          | 2.6.4     | 2010      | PSF        | yes     |
| 2.7            | 2.6       | 2010      | PSF        | yes     |

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.



In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5   | 2.4   | 2006 | PSF | yes |
| 2.5.1 | 2.5   | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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## 1.203 attrs 20.3.0

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## 1.204 click 7.1.2

### 1.204.1 Available under license :

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):

\* /opt/cola/permits/1160566381\_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/\_compat.py



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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)

setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD-3-Clause",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*,
!=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
    ],
)
```

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- \* /opt/cola/permits/1160566381\_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/setup.py



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.. \_contrib:

```
=====
click-contrib
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib\_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please

note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. \_click-contrib: <https://github.com/click-contrib/>

Found in path(s):

\* /opt/cola/permits/1160566381\_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/docs/contrib.rst

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\* /opt/cola/permits/1160566381\_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/parser.py

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Found in path(s):

\* /opt/cola/permits/1160566381\_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/tests/test\_formatting.py

## 1.205 cffi 1.14.5

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## 1.206 attr 2.5.1

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# PLY (Python Lex-Yacc)

Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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## Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.  
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *\*very\** extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

## How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:



```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files `lex.py` and `yacc.py` individually and use them as modules. For example:

```
import lex
import yacc
```

The file `setup.py` can be used to install `ply` using `distutils`.

The file `doc/ply.html` contains complete documentation on how to use the system.

The example directory contains several different examples including a `PLY` specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

`PLY` requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. `PLY` has been tested with both CPython and Jython. It also seems to work with IronPython.

#### Resources

=====

More information about `PLY` can be obtained on the `PLY` webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for `PLY` can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for `PLY` is found at:

<http://groups.google.com/group/ply-hack>



## Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

## Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

## Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----
# calc.py
#
# A simple calculator with variables.
# -----

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
)

# Tokens

t_PLUS = r'\+'
t_MINUS = r'\-'
t_TIMES = r'\*'
t_DIVIDE = r'\/'
t_EQUALS = r'\='
t_LPAREN = r'\('
t_RPAREN = r'\)'
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'
```



```

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]

```



```

elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN
expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

```

## Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page

at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).



-- Dave

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## 1.211 pexpect 4.8.0

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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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# 1.213 supervisor 4.2.1

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# 1.214 binutils 2.36.1

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(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is  
not meant as a slight. I just don't know about it. Email me,  
nickc@redhat.com and I'll correct the situation.

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the documentation, and info on specific files will go into an AUTHORS  
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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for  
gdb-specific debug information and the 68k series machines, most of  
the preprocessing pass, and extensive changes in messages.c,  
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various  
enhancements and many bug fixes, including merging support for several  
processors, breaking gas up to handle multiple object file format  
backends (including heavy rewrite, testing, an integration of the coff  
and b.out backends), adding configuration  
including heavy testing and  
verification of cross assemblers and file splits and renaming,  
converted gas to strictly ansi C including full prototypes, added  
support for m680[34]0 & cpu32, considerable work on i960 including a  
coff port (including considerable amounts of reverse engineering), a  
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host  
ports, updated "know" assertions and made them work, much other  
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of  
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.  
Eric Youngdale and Pat Rankin have done much work with it since.



The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).



Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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# 1.215 fail2ban 0.11.2

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# 1.216 urllib3 1.26.5

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# Contributions to the urllib3 project

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## Contributors



In chronological order:

- \* victor.vde <<http://code.google.com/u/victor.vde/>>
  - \* HTTPS patch (which inspired HTTPSPool)
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
  - \* NTLM-authenticated HTTPSPool
  - \* Basic-authenticated HTTPSPool (merged into make\_headers)
- \* niphlod <niphlod@gmail.com>
  - \* Client-verified SSL certificates for HTTPSPool
  - \* Response gzip and deflate encoding support
  - \* Better unicode support for filepost using StringIO buffers
- \* btoconnor <brian@btoconnor.net>
  - \* Non-multipart encoding for POST requests
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
  - \* Code review, PEP8 compliance, benchmark fix
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  - \* IPv6 url support and test coverage
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  - \* Support for TLS SNI
  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite



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- \* Various bugfixes and test improvements.
  
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- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
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- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
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- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
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- \* Support for non-ASCII header parameters
  
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- \* Support for separate connect and request timeouts
  
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- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<https://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module



- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
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- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
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- \* Added Url.url, which unparses a Url
  
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- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.



- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <jesse@jesseshapiro.net>



- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.



- \* Update appveyor tox setup to use the 64bit python.
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- \* Bruce Merry <<https://www.brucemerry.org.za>>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
- \* Hugo van Kemenade <<https://github.com/hugovk>>
- \* Drop support for EOL Python 2.6
- \* Tim Bell <<https://github.com/timb07>>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
- \* Justin Bramley <<https://github.com/jbramleycl>>
- \* Add ability to handle multiple Content-Encodings
- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- \* Remove Authorization header  
regardless of case when redirecting to cross-site
- \* James Meickle <<https://permadeath.com/>>
- \* Improve handling of Retry-After header
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
- \* Jorge Lopez Silva <<https://github.com/jalopezsilva>>
- \* Added support for forwarding requests through HTTPS proxies.
- \* Benno Rice <benno@jeamland.net>
- \* Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.



- \* Keiichi Kobayashi <abok.1k@gmail.com>
- \* Rename VerifiedHTTPSConnection to HTTPSConnection
  
- \* Himanshu Garg <garg\_himanshu@outlook.com>
- \* DOC & LICENSE Update
  
- \* Hod Bin Noon <bin.noon.hod@gmail.com>
- \* Test improvements
  
- \* Chris Olufson <tycarac@gmail.com>
- \* Fix for connection not being released on HTTP redirect and response not preloaded
  
- \* [Bastiaan Bakker] <<https://github.com/bastiaanb>>
- \* Support for logging session keys
- via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)
  
- \* [Ezzeri Esa] <<https://github.com/savarin>>
- \* Ports and extends on types from typeshed
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

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## 1.217 tar 1.34



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- \* btoconnor <brian@btoconnor.net>
  - \* Non-multipart encoding for POST requests
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
  - \* Code review, PEP8 compliance, benchmark fix
- \* kennethreitz <me@kennethreitz.com>
  - \* Bugfixes, suggestions, Requests integration
- \* georgemarshall <<https://github.com/georgemarshall>>
  - \* Bugfixes, Improvements and Test coverage
- \* Thomas Kluyver <thomas@kluyver.me.uk>
  - \* Python 3 support
- \* brandon-rhodes <<http://rhodesmill.org/brandon>>
  - \* Design review, bugfixes, test coverage.
- \* studer <theo.studer@gmail.com>
  - \* IPv6 url support and test coverage
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  - \* Support for explicitly closing pooled connections
- \* hartator <hartator@gmail.com>
  - \* Corrected multipart behavior for params
- \* Thomas Weischuh <thomas@t-8ch.de>
  - \* Support for TLS SNI



- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<https://dbrgn.ch/>>



- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.



- \* tlynn <<https://github.com/tlynn>>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <[ddriddle@illinois.edu](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <<https://github.com/talos>>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <<https://github.com/Disassem>>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <[jlatherfold@hotmail.com](mailto:jlatherfold@hotmail.com)>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <<https://github.com/chripede>>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <<https://github.com/jmoldow>>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@googlemail.com](mailto:andy.m.caldwell@googlemail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.



- \* Shige Takeda <smtakeda@gmail.com>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
- \* Jess Shapiro <jesse@jesseshapiro.net>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
- \* David Foster <http://dafoster.net/>
  - \* Ensure order of request and response headers are preserved.
- \* Jeremy Cline <jeremy@jcline.org>
  - \* Added connection pool keys by scheme
- \* Aviv Palivoda <palaviv@gmail.com>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
- \* Nate Prewitt <nate.prewitt@gmail.com>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
- \* Erik Rose <erik@mozilla.com>
  - \* Bugfix to pyopenssl vendoring
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
- \* Mike Miller <github@mikeage.net>



- \* Logging improvements to include the HTTP(S) port when opening a new connection
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header  
regardless of case when redirecting to cross-site
- \* James Meickle <https://permadeath.com/>
- \* Improve handling of Retry-After header
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
- \* Jorge Lopez Silva <https://github.com/jalopezsilva>
- \* Added support for forwarding requests through HTTPS proxies.



- \* Benno Rice <benno@jeamland.net>
  - \* Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.
  
  - \* Keiichi Kobayashi <abok.1k@gmail.com>
  - \* Rename VerifiedHTTPSConnection to HTTPSConnection
  
  - \* Himanshu Garg <garg\_himanshu@outlook.com>
  - \* DOC & LICENSE Update
  
  - \* Hod Bin Noon <bin.noon.hod@gmail.com>
  - \* Test improvements
  
  - \* Chris Olufson <tycarac@gmail.com>
  - \* Fix for connection not being released on HTTP redirect and response not preloaded
  
  - \* [Bastiaan Bakker] <<https://github.com/bastiaanb>>
  - \* Support for logging session keys  
via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)
  
  - \* [Ezzeri Esa] <<https://github.com/savarin>>
  - \* Ports and extends on types from typeshed
  
  - \* [Your name or handle] <[email or website]>
  - \* [Brief summary of your changes]
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# 1.219 expat 2.4.1

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```
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```

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## 1.221 e2fsprogs 1.46.1



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It is part of the main e2fsprogs distribution, which can be found at:

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.



```

#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*



- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell                      2005
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Gadi Oxman, August 1995

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```

```
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Theodore Ts'o  
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-----  
  
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relink to produce a modified

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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## END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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## TERMS AND CONDITIONS

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#### 1. Source Code.

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A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

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4 to

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no



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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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## 1.233 python-pip 21.2.4

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## Contributors

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- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities  
(CA). These were automatically extracted from Mozilla's root certificates  
file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |



|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.3 |       |           |     |     |
| 2.1.2 | 2002  | PSF       | yes |     |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
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| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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In May 2000, Guido and the Python core development team moved to  
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year, the PythonLabs team moved to Digital Creations (now Zope  
Corporation, see <http://www.zope.com>). In 2001, the Python Software  
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| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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## 1.234 procps 3.3.17

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# 1.235 stringio 3.0.0

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/\*\*\*\*\*

stringio.c -

\$Author\$

\$RoughId: stringio.c,v 1.13 2002/03/14 03:24:18 nobu Exp \$

created at: Tue Feb 19 04:10:38 JST 2002



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\* /opt/cola/permits/1192562010\_1629239750.26/0/stringio-3-0-0-gem/data-tar-gz/ext/stringio/stringio.c

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# StringIO

![ubuntu](https://github.com/ruby/stringio/workflows/ubuntu/badge.svg?branch=master&event=push)

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Pseudo ``IO`` class from/to ``String``.

This library is based on MoonWolf version written in Ruby. Thanks a lot.

## Differences to ``IO``

\* ``fileno`` raises ``NotImplementedError``.

\* encoding conversion is not implemented, and ignored silently.

## Installation

Add this line to your application's Gemfile:

```
``ruby
gem 'stringio'
``
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install StringIO
```

## Development

After checking out the repo, run ``bin/setup`` to install dependencies. Then, run ``rake test`` to run the tests. You can also run ``bin/console`` for an interactive prompt that will allow you to experiment.

To



install this gem onto your local machine, run ``bundle exec rake install``. To release a new version, update the version number in ``version.rb``, and then run ``bundle exec rake release``, which will create a git tag for the version, push git commits and tags, and push the ``gem`` file to [rubygems.org](https://rubygems.org).

## ## Contributing

Bug reports and pull requests are welcome on GitHub at <https://github.com/ruby/stringio>.

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Found in path(s):

\* /opt/cola/permits/1192562010\_1629239750.26/0/stringio-3-0-0-gem/data-tar-gz/README.md

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\$Id\$

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\* /opt/cola/permits/1192561934\_1631929609.55/0/strscan-3-0-0-gem/data-tar-gz/ext/strscan/strscan.c

# 1.237 etc 1.2.0

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## 1.238 did-you-mean 1.5.0

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## 1.239 cyrus-sasl 2.1.20



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* Rob Earhart
* Rob Siemborski
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## 1.242 tcl 8.6.11

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## 1.261 reline 0.2.5

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## 1.262 irb 1.3.5

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## 1.263 delegate 0.2.0

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## 1.264 observer 0.1.1



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[ccan/build\_assert/build\_assert.h]  
[ccan/check\_type/check\_type.h]  
[ccan/container\_of/container\_of.h]  
[ccan/str/str.h]

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[coroutine]

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[include/ruby/oniguruma.h]  
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[regenc.h]  
[regerror.c]  
[regex.c]  
[regint.h]  
[regparse.c]  
[regparse.h]  
[enc/ascii.c]  
[enc/big5.c]  
[enc/cp949.c]



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\* <https://github.com/k-takata/Onigmo/>

\* <https://github.com/kkos/oniguruma>

\* <https://svnweb.freebsd.org/ports/head/devel/oniguruma/>



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[enc/windows\_1250.c]

[enc/windows\_1252.c]

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[enc/cesu\_8.c]

[enc/windows\_1253.c]

[enc/windows\_1254.c]

[enc/windows\_1257.c]

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[enc/trans/GB/GB12345%UCS.src]  
[enc/trans/GB/UCS%GB12345.src]  
[enc/trans/GB/GB2312%UCS.src]  
[enc/trans/GB/UCS%GB2312.src]

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[enc/trans/JIS/JISX0208@1990%UCS.src]  
[enc/trans/JIS/JISX0212%UCS.src]  
[enc/trans/JIS/UCS%JISX0201-KANA.src]  
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[enc/trans/JIS/JISX0213-1%UCS@SIP.src]  
[enc/trans/JIS/JISX0213-2%UCS@BMP.src]  
[enc/trans/JIS/JISX0213-2%UCS@SIP.src]

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[enc/trans/JIS/UCS@BMP%JISX0213-2.src]  
[enc/trans/JIS/UCS@SIP%JISX0213-1.src]  
[enc/trans/JIS/UCS@SIP%JISX0213-2.src]

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[enc/trans/ucm/glibc-BIG5HKSCS-2.3.3.ucm]

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[enc/trans/ucm/windows-950-2000.ucm]  
[enc/trans/ucm/windows-950\_hkscs-2001.ucm]

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[tool/config.guess]

[tool/config.sub]

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[tool/lib/test/\*]

[tool/lib/core\_assertions.rb]

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[parse.c]

[parse.h]

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[missing/dtoa.c]

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[win32/win32.c]

[include/ruby/win32.h]

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[missing/mt19937.c]

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>>>>

A C-program for MT19937, with initialization  
improved 2002/2/10::

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization,  
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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[missing/procstat\_vm.c]

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\$FreeBSD: head/usr.bin/procstat/procstat\_vm.c 261780 2014-02-11 21:57:37Z jhb \$

[vsnprintf.c]

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[st.c]

[strftime.c]

[include/ruby/st.h]

[missing/acosh.c]

[missing/alloca.c]

[missing/erf.c]

[missing/hypot.c]

[missing/lgamma\_r.c]

[missing/memcmp.c]

[missing/memmove.c]

[missing/strchr.c]

[missing/strerror.c]

[missing/strstr.c]

[missing/tgamma.c]

[ext/date/date\_strftime.c]

[ext/digest/sha1/sha1.c]

[ext/digest/sha1/sha1.h]

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[missing/crypt.c]

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[missing/strncpy.c]

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[ext/digest/md5/md5.h]

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[ext/digest/rmd160/rmd160.c]

[ext/digest/rmd160/rmd160.h]

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AUTHOR:: Antoon Bosselaers, ESAT-COSIC  
(Arranged for libc by Todd C. Miller)  
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[ext/digest/sha2/sha2.c]

[ext/digest/sha2/sha2.h]

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[ext/json/generator/generator.c]

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[ext/nkf/nkf-utf8/nkf.c]  
[ext/nkf/nkf-utf8/utf8tbl.c]

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[test/psych]

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[ext/pty/pty.c]



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[ext/socket/getaddrinfo.c]

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[spec/ruby]

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[lib/rubygems]

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Metadata-Version: 1.0

Name: prettyprint

Version: 0.1.0

Summary: prettyprint print list/dict/tuple object prettily

Home-page: <http://github.com/taichino/prettyprint>

Author: Matsumoto Taichi

Author-email: taichino@gmail.com

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Description:

This module provides pretty printing for list/dict/tuple python object.

Simple example of usage is followings

```
>>> from prettyprint import pp
>>> target = ['want pretty printing', '']
>>> print target
['want pretty printing', ''] # what a ugly print especially in japanese
>>> pp(target) # now we can see pretty print with pp
[
  "want pretty printing",
  ""
]
>>> target_dict = {'order': {'en': 'pretty print', 'ja': ''}}
>>> print target_dict # what a hell again
{'order': {'en': 'pretty print', 'ja': ''}}

>>> pp(target_dict) # pp again
{
  "order": {
    "en": "print prettily",
    "ja": ""
  }
}
```

Keywords: pretty print

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

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## 1.278 io-console 0.5.7

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# 1.280 optparse 0.1.0

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## 1.283 singleton 0.1.1

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- global-singleton also promise don't do any breaking changes - ever. Which means, If B use GS 0.1.1 and load D1 as 'D', C can feel free to use GS 1000.0.0 and get 'D' still going to return D1 (which is loaded by B).

Found in path(s):

\* /opt/cola/permits/1200885593\_1680520713.4681115/0/global-singleton-0-1-1-tgz/package/README.md



# 1.284 find 0.1.0

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# 1.285 power-assert 1.2.0

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## 1.286 digest 3.0.0

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## 1.289 ostruct 0.3.1

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# 1.290 io-nonblock 0.1.0

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## 1.291 luajit 2.1.0.beta3

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## 1.293 go-capability 0.0.0-20200815063812-42c35b437635

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# 1.302 containerd-console 1.0.1

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# 1.306 go-systemd 22.1.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see



<https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |
| PSF            | yes          |           |            |                     |

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the

object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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# 1.314 glib 2.66.7

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## 1.318 crs-log 0.6.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers.

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# Jackson JSON processor

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include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
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man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
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man/wcslcpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
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src/pwcache.c  
src/radixsort.c  
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man/expand\_number.3bsd

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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random\_linux.h

src/arc4random\_openbsd.h

src/arc4random\_uniform.c

src/arc4random\_unix.h



src/arc4random\_win.h  
src/closefrom.c  
src/freezero.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
src/getentropy\_solaris.c  
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## 1.326 pango 1.48.2

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of  
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# 1.327 dtc 1.6.0

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=====

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David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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\* This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50

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\*/

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\*\*\*\*\*

----  
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Mesa 3-D  
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```
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include/GL/glxext.h
include/GL/wglxext.h :
```

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```
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May

2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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|----------------|--------------|-----------|------------|---------------------|
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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=====

Advice for new contributors

=====

New contributor and not sure what to do? Want to help but just don't know how  
to get started? This is the section for you.

.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the :doc:`/intro/contributing`  
tutorial will give you an introduction to the tools and the workflow.

First steps

=====

Start with these easy tasks to discover Django's development process.

\* \*\*Triage tickets\*\*

If an `unreviewed ticket`\_ reports a bug, try and reproduce it. If you  
can reproduce it and it seems valid, make a note that you confirmed the bug  
and accept the ticket. Make sure the ticket is filed under the correct



component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at [:ref:`how-can-i-help-with-triaging`](#)

**\*\*Look for tickets that are accepted and review patches to build familiarity with the codebase and the process\*\***

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. [:doc:`Run the tests </internals/contributing/writing-code/unit-tests>`](#) and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

**\*\*Keep old patches up to date\*\***

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on [:doc:`writing-code/submitting-patches`](#).

**\*\*Write some documentation\*\***

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on [:doc:`writing-documentation`](#).

.. note::

The [`reports page`\\_](#) contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. [\\_reports page: https://code.djangoproject.com/wiki/Reports](https://code.djangoproject.com/wiki/Reports)

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## Guidelines

=====

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

**\*\*Pick a subject**  
area that you care about, that you are familiar with, or  
that you want to learn about**\*\***

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**\*\*Analyze tickets' context and history\*\***

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who **\*hasn't\*** spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

**\*\*Start small\*\***

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`` \_.

**\*\*If you're going to engage in a big task, make sure that your idea has support first\*\***

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

**\*\*Be bold! Leave feedback!\*\***

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **\*\*you\*\***!

**\*\*Err on the side of caution when marking things Ready For Check-in\*\***

If you're really not certain if a ticket is ready, don't mark it as



such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

**\*\*Wait for feedback, and respond to feedback that you receive\*\***

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

**\*\*Be rigorous\*\***

When we say "pep:8", and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. \_easy pickings: <https://code.djangoproject.com/query?status=!closed&easy=1>

.. \_new-contributors-faq:

## FAQ

====

1. **\*\*This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?\*\***

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **\*\*I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?\*\***

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

# 1.332 libaio 0.3.112



## 1.332.1 Available under license :

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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## 1.333 libpwquality 1.4.4

### 1.333.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * pw.h
 *
 * Password routines, adopted from IOX
 *
 * May 2000 Mark Eklund
 * July 2005, Craig MacFarlane
 *
 * Copyright (c) 2000-2005, 2007, 2010, 2014, 2018 by cisco Systems, Inc.
 * All rights reserved.
 */
/*
 * edt: * pw_type_t
 *     Possible formats of saving the password in SysDB.
 *
 * item: PW_TYPE_CLEAR
 *     The password in the clear, visible for anybody.
 *
 * item: PW_TYPE_1WAY
 *     The password encrypted to an MD5 digest. This is not reversible.
 *
 * item: PW_TYPE_1WAY_2
 *     The password encrypted to an sha256 digest. This is not reversible.
 *
 * item: PW_TYPE_2WAY
 *     The Cisco type 7 password encryption. This is reversible
 * by both Cisco products and several public domain programs.
```



\*/

Found in path(s):

\* /opt/cola/permits/1273716988\_1648046860.0/0/pw-tar/pw/include/pw.h

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/\*

\* pw\_defs.h

\*

\* Password defines.

\*

\* July 2005, Craig MacFarlane

\*

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\*/

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\* /opt/cola/permits/1273716988\_1648046860.0/0/pw-tar/pw/Makefile.binos

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/\*

\* pw.c

\*

\* AAA password routines, adopted from IOX

\*

\* January 2005, Naiming Shen

\* July 2005, Craig MacFarlane

\*

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\*

\*-----

\* pw.c -- password encryption/decryption routines

\*

\* May 08 2000, Mark Eklund

\*

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\*/



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\* /opt/cola/permits/1273716988\_1648046860.0/0/pw-tar/pw/src/pw.c

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/\*

\* pw\_const.tph

\*

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\*/

@DIRECTIVES{

auto\_import\_stg = false;

skip\_auto\_tdl\_include = true;

}@

@IMPORT\_STG{

import "constant\_gen.stg";

}@

@TDL{

import "pw\_const.tdl"

}@

@CODE{

#ifndef \_\_TDLC\_GEN\_PW\_CONST\_H\_\_

#define \_\_TDLC\_GEN\_PW\_CONST\_H\_\_

\$constant\_generate()\$

#endif /\* \_\_TDLC\_GEN\_PW\_CONST\_H\_\_ \*/

}@

Found in path(s):

\* /opt/cola/permits/1273716988\_1648046860.0/0/pw-tar/pw/include/pw\_const.tph

# 1.334 libaio 0.3.111

## 1.334.1 Available under license :

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~ Hibernate Validator, declare and validate application constraints

~

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Found in path(s):

\* /opt/cola/permits/1297807395\_1648724640.25/0/hibernate-validator-6-2-3-final-jar/META-INF/maven/org.hibernate/hibernate-validator/pom.xml

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting



Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com

to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release from   | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          |              |           |            |                     |
|                | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |

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## 1.340 pcre 10.40

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included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

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## 1.341 pycparser 2.20

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# 1.347 libnsl 1.3.0

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Files: src/libc-lock.h

src/nisplus/nis\_add.c  
src/nisplus/nis\_addmember.c  
src/nisplus/nis\_call.c  
src/nisplus/nis\_callback.c  
src/nisplus/nis\_checkpoint.c  
src/nisplus/nis\_clone\_dir.c  
src/nisplus/nis\_clone\_obj.c  
src/nisplus/nis\_clone\_res.c  
src/nisplus/nis\_creategroup.c  
src/nisplus/nis\_defaults.c  
src/nisplus/nis\_destroygroup.c  
src/nisplus/nis\_domain\_of.c  
src/nisplus/nis\_domain\_of\_r.c  
src/nisplus/nis\_file.c  
src/nisplus/nis\_findserv.c  
src/nisplus/nis\_free.c  
src/nisplus/nis\_getservlist.c  
src/nisplus/nis\_hash.c  
src/nisplus/nis\_intern.h  
src/nisplus/nis\_ismember.c  
src/nisplus/nis\_local\_names.c  
src/nisplus/nis\_lookup.c



src/nisplus/nis\_mkdir.c  
src/nisplus/nis\_modify.c  
src/nisplus/nis\_ping.c  
src/nisplus/nis\_print.c  
src/nisplus/nis\_print\_group\_entry.c  
src/nisplus/nis\_remove.c  
src/nisplus/nis\_removemember.c  
src/nisplus/nis\_rmdir.c  
src/nisplus/nis\_server.c  
src/nisplus/nis\_subr.c  
src/nisplus/nis\_table.c  
src/nisplus/nis\_util.c  
src/nisplus/nis\_verifygroup.c  
src/nisplus/nis\_xdr.c  
src/nisplus/nis\_xdr.h  
src/rpcsvc/nislib.h  
src/rpcsvc/ypclnt.h

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Files: src/rpcsvc/nis\_callback.h

src/rpcsvc/nis\_callback.x  
src/rpcsvc/nis\_object.x  
src/rpcsvc/nis\_tags.h  
src/rpcsvc/nis.h  
src/rpcsvc/nis.x  
src/rpcsvc/yp.h  
src/rpcsvc/yp.x  
src/rpcsvc/yp\_prot.h  
src/rpcsvc/yppasswd.h  
src/rpcsvc/yppasswd.x  
src/rpcsvc/ypupd.h  
src/yp\_xdr.c

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src/Makefile.in

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config.guess

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Files: compile

depcomp

missing

test-driver

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Files: install-sh

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Files: ltmain.sh

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Files: config.rpath

m4/gettext.m4

m4/host-cpu-c-abi.m4

m4/iconv.m4

m4/intlmacosx.m4

m4/lib-ld.m4

m4/lib-link.m4

m4/lib-prefix.m4

m4/libtool.m4

m4/ltoptions.m4

m4/ltsugar.m4

m4/ltversion.m4

m4/lt~obsolete.m4

m4/nls.m4

m4/po.m4

m4/progtest.m4

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Files: ABOUT-NLS

po/Makefile.in.in



po/Makevars  
po/POTFILES.in  
po/Rules-quot  
po/boldquot.sed  
po/en@boldquot.header  
po/en@quot.header  
po/insert-header.sin  
po/libnsl.pot  
po/quot.sed  
po/remove-potcdate.sin  
po/stamp-po

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# 1.349 gdb 10.1

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.



Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.



Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or



collective works based on the Library.

In addition,

mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the

Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the



library". The executable is therefore covered by this License.  
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the



Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.



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#### Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

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Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a



combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:



- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified

Library refers to a function or a

table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.



If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the



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Version 3, 29 June 2007

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

@c man end

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Any executables

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## 1.351 libnsI 1.2.0



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# 1.352 talloc 2.3.3

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/\*

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Samba temporary memory allocation functions

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## 1.353 openssl 1.1.1q

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(For example, a function in a library to compute square roots has



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Mathieu Desnoyers

December 5, 2012

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# 1.358 zlib 1.2.11

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

# 1.359 linux-kernel 5.10.110

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Version 2, June 1991

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/\* nicstar.c v0.22 Jawaidd Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaidd Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*



- \* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- \*
- \* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- \*
- \* Linux driver for the IDT77201 NICStAR PCI ATM controller.
- \* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- \* see init\_nicstar() for PHY initialization to change this. This driver
- \* expects the Linux ATM stack to support scatter-gather
- lists
- \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- \*
- \* Implementing minimal-copy of received data:
- \* IDT always receives data into a small buffer, then large buffers
- \* as needed. This means that data must always be copied to create
- \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- \* Fix is simple: make large buffers large enough to hold entire
- \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then
- \* copy small buffer contents to head of large buffer.
- \* Trick is to avoid fragmenting Linux, due to need for a lot of large
- \* buffers. This is done by 2 things:
- \* 1) skb->destructor / skb->atm.recycle\_buffer
- \* combined, allow nicstar\_free\_rx\_skb to be called to
- \* recycle large data buffers
- \* 2) skb\_clone of received buffers
- \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation
- \* details.
- \*
- \*
- \*
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- \*
- \* M. Welsh, 6 July 1996
- \*



\*

\*/

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<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)  
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The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See [changelog.Debian.gz](http://changelog.Debian.gz)

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:



| Language      | Compiler package | Library package | Documentation     |
|---------------|------------------|-----------------|-------------------|
| -----         |                  |                 |                   |
| Ada           | gnat-10          | libgnat-10      | gnat-10-doc       |
| BRIG          | gccbrig-10       | libhsail-rt0    |                   |
| C             | gcc-10           |                 | gcc-10-doc        |
| C++           | g++-10           | libstdc++6      | libstdc++6-10-doc |
| D             | gdc-10           |                 |                   |
| Fortran 95    | gfortran-10      | libgfortran5    | gfortran-10-doc   |
| Go            | gccgo-10         | libgo0          |                   |
| Objective C   | gobjc-10         | libobjc4        |                   |
| Objective C++ | gobjc++-10       |                 |                   |
| Modula-2      | gm2-10           | libgm2          |                   |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources          | Development       | Debugging         | Position-Independent |
|----------|------------------|-------------------|-------------------|----------------------|
| -----    |                  |                   |                   |                      |
| C++      |                  | libstdc++6-10-dbg | libstdc++6-10-pic |                      |
| D        | libphobos-10-dev |                   |                   |                      |

Additional packages include:

All languages:

libgcc1,

libgcc2, libgcc4    GCC intrinsics (platform-dependent)

gcc-10-base        Base files common to all compilers

gcc-10-soft-float    Software floating point (ARM only)

gcc-10-source        The sources with patches

Ada:

libgnat-util10-dev, libgnat-util10    GNAT version library

C:

cpp-10, cpp-10-doc        GNU C Preprocessor

libssp0-dev, libssp0        GCC stack smashing protection library

libquadmath0        Math routines for the \_\_float128 type

fixincludes        Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1    GCC OpenMP (GOMP) support library

libitm1-dev, libitm1    GNU Transactional Memory Library

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- \* Cygnus Support, drepper@cygnus.com.

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Cephes Math Library Release 2.2: January, 1991

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D:  
gdc-10                      GNU D Compiler  
libphobos-10-dev              D standard runtime library

The D source package is made up of the following components.

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- d/\*

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# 1.362 python-setuptools 58.1.0

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## 1.363 packaging 20.4

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## 1.364 pysocks 1.7.1

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## 1.365 futures 3.3.0

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\* /opt/cola/permits/1403936596\_1661910591.6366453/0/example-21-12-dist-info-  
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# 1.367 bind 8.100

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Found in path(s):

- \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslfold.c
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20210105/source/include/actbl2.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acuuid.h
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/adfile.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpixtract/axmain.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/ahids.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/platform/acfreebsd.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utresrc.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utstring.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpisrc/asfile.c
*

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/opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/tables/tbfadt.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslstartup.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/parser/psutils.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/acpiosxf.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/amlresrc.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/platform/acenv.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslfileio.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/dispatcher/dswload.c

\*

/opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/tools/acpisrc/ascase.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/platform/acintel.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/namespace/nsrepair.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/resources/rsdump.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/namespace/nsutils.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/actbl.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/actbl3.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/tables/tbprint.c

\*

/opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/namespace/nsprepkg.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/events/evmisc.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/common/dmtbinfo2.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/platform/acnetbsd.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/events/evrgnini.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/resources/rscal.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/common/ahtable.c



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*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/events/evxfevnt.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exnames.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nsaccess.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exserial.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/acgetline.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/asllisting.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslrestype2w.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpihelp/ahaslops.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/asloffset.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exstoren.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nssearch.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/parser/psopcode.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/os_specific/service_layers/osbsdtbl.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/resources/rsserial.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nsxfobj.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslutils.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslprintf.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acoutput.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/cvdisasm.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslresource.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslmap.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nsload.c
*

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/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/events/evhandler.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acdispat.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpidump/apfiles.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utuid.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/dmtable.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/uteval.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/platform/achaiku.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/acfileio.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/efihello/efihello.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpihelp/ahaml.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/preprocess.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dtexpress.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/debugger/dbdisply.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslascii.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpiexec/aeexec.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/examples/examples.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpisrc/asremove.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpihelp/ahaslkey.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslerror.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/disassembler/dmstyle.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dtable.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/tables/tbfind.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/disassembler/dmutils.c

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*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslanalyze.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utclib.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpibin/acpibin.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/amlcode.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utstate.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acparser.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslmethod.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpiexec/aeinitfile.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utmutex.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/tables/tbutils.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/resources/rsinfo.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utbuffer.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/hardware/hwesleep.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/platform/aclinux.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/disassembler/dmresrc.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/os_specific/service_layers/osunixdir.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/dmtbdump1.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exconvrt.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/platform/acdragonflyex.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/os_specific/service_layers/osunixxf.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acpredef.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/parser/pswalk.c
*

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/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpihelp/ahamlops.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/resources/rsaddr.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/actables.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acopcode.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/events/evregion.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/asltree.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/debugger/dbtest.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
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*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/disassembler/dmopcode.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/hardware/hwpci.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/dispatcher/dswload2.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nsobject.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/platform/acwin64.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exfield.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acinterp.h
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/os_specific/service_layers/osunixmap.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/events/evglock.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpihelp/acpihelp.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/resources/rsmisc.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/cmfsz.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nsarguments.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslstubs.c
*

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/opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/dispatcher/dsopcode.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/acobject.h  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/platform/acgcc.h  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/dispatcher/dsmethod.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/tables/tbinstal.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/resources/rsxface.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/common/dmtbdump3.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/resources/rslist.c  
 \*  
 /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/asllistsup.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/hardware/hwsleep.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/parser/psloop.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/actbl1.h  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/common/dmextern.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/debugger/dbfileio.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslpredef.c  
 \*  
 /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslxref.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/hardware/hwtimer.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/tools/acpidump/acpidump.h  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/dispatcher/dsargs.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/common/dmtbdump.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/hardware/hwvalid.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/utilities/utcopy.c  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/executer/exdump.c



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*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/debugger/dbstats.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utalloc.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/platform/accygwin.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/dispatcher/dsdebug.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslexternal.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/hardware/hwxface.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslcompiler.h
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpiexec/aeinstall.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/debugger/dbexec.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utdecode.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/parser/psscope.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpiexec/aetables.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dttemplate.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/parser/pstree.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpixtract/axutils.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslcodegen.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/disassembler/dmwalk.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/platform/aclinuxex.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acdisasm.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpibin/abmain.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exregion.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/disassembler/dmdeferred.c
*

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/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utnonansi.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dtable2.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exoparg1.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nsconvert.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/parser/psparse.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acpixf.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dtable1.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acstruct.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslrestype2s.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/examples/examples.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/accommon.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/events/evevent.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acclib.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslxrefout.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exutils.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/actypes.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslmain.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/dispatcher/dscope.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nswalk.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utstrsuppt.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/dispatcher/dswexec.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslmessages.h
*

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/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utxexcep.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acpi.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/debugger/dbmethod.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/tables/tbxload.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acnamesp.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dtcompile.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/hardware/hwacpi.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/getopt.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
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* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utcachec.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/dispatcher/dsobject.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/asldebug.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/uthex.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/uterror.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exprep.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/hardware/hwregs.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exresolv.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/resources/rsmemory.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/disassembler/dmbuffer.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/debugger/dbcmds.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpisrc/acpisrc.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dtfield.c
*

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/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslopcodes.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslload.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acmacros.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/asltransform.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dtcompiler.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/tables/tbxface.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpihelp/ahgrammar.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/os_specific/service_layers/oswintbl.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/debugger/dbobject.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/dmtbinfoc.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslhex.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/ahuids.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
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* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslparseop.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
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* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpiexec/aetests.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acnames.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpidump/apdump.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
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* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
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* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/parser/psxfac.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslhelp.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/acconvert.h

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*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nsalloc.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utpredef.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/events/evgpe.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpihelp/ahasl.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslnamesp.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/dispatcher/dsfield.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslprepkg.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utownerid.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/asloptions.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/asllength.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/platform/acmsvcex.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/namespace/nsxfname.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/prmacros.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dtsubtable.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exmutex.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/include/actbinfo.h
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/disassembler/dmresrc1.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslmapoutput.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/common/dmswitch.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/os_specific/service_layers/oslinuxtbl.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslopt.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/hardware/hwgpe.c
*

```



/opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/executer/exstore.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/os\_specific/service\_layers/oswinxf.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/tools/acpiexec/aeexception.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/asluuid.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/tools/acpiexec/aemain.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/tools/examples/extables.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/utilities/utids.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/dispatcher/dspkginit.c

\*

/opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/executer/exresnte.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/utilities/utxferror.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/dtio.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/utilities/utascii.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/acapps.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/executer/exoparg2.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/cvcompiler.c

\*

/opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/common/adisasm.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/tools/acpisrc/asconvrt.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslmapenter.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/utilities/utdelete.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/platform/acmsvc.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/include/aclocal.h

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/tools/acpiexec/aehandlers.c

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/utilities/utstrtoul64.c



```

*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/events/evxface.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/executer/exresop.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/disassembler/dmnames.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/cvparser.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/examples/exstubs.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/tables/tbdata.c
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/components/utilities/utresdecode.c
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/tools/acpixtract/acpixtract.c
No license file was found, but licenses were detected in source scan.

```

```

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/*****
*
* Module Name: prparser.y - Bison input file for preprocessor parser
*
*****/

/*****
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```
#include "aslcompiler.h"
```

```
#define _COMPONENT      ASL_PREPROCESSOR
        ACPI_MODULE_NAME  ("prparser")
```

```
void *      AslLocalAllocate (unsigned int Size);
```

```
/* Bison/yacc configuration */
```

```
#undef alloca
```

```
#define alloca      AslLocalAllocate
```

```
int      PrParserlex (void);
```



```

int                PrParserparse (void);
void               PrParsererror (char const *msg);
extern char        *PrParsertext;

UINT64             PrParserResult; /* Expression return value */

/* Bison/yacc configuration
*/

#define yytname      PrParsername
#define YYDEBUG      1           /* Enable debug output */
#define YYERROR_VERBOSE 1       /* Verbose error messages */
#define YYFLAG       -32768

/* Define YYMALLOC/YYFREE to prevent redefinition errors */

#define YYMALLOC      malloc
#define YYFREE        free
% }

%union
{
    UINT64            value;
    UINT32            op;
    char              *str;
}

/*! [Begin] no source code translation */

%type <value> Expression

%token <op>      EXPOP_EOF
%token <op>      EXPOP_NEW_LINE
%token <op>      EXPOP_NUMBER
%token <op>      EXPOP_HEX_NUMBER
%token <op>      EXPOP_RESERVED1
%token <op>      EXPOP_RESERVED2
%token <op>      EXPOP_PAREN_OPEN
%token <op>      EXPOP_PAREN_CLOSE

%left <op>      EXPOP_LOGICAL_OR
%left <op>      EXPOP_LOGICAL_AND
%left <op>      EXPOP_OR
%left <op>      EXPOP_XOR
%left <op>      EXPOP_AND
%left <op>      EXPOP_EQUAL EXPOP_NOT_EQUAL
%left <op>

```



```

    EXPOP_GREATER EXPOP_LESS EXPOP_GREATER_EQUAL EXPOP_LESS_EQUAL
%left <op>    EXPOP_SHIFT_RIGHT EXPOP_SHIFT_LEFT
%left <op>    EXPOP_ADD EXPOP_SUBTRACT
%left <op>    EXPOP_MULTIPLY EXPOP_DIVIDE EXPOP_MODULO
%right <op>   EXPOP_ONES_COMPLIMENT EXPOP_LOGICAL_NOT

/* Tokens above must be kept in synch with dtparser.y */

%token <op>   EXPOP_DEFINE
%token <op>   EXPOP_IDENTIFIER

%%

/*
* Operator precedence rules (from K&R)
*
* 1)  ( )
* 2)  ! ~ (unary operators that are supported here)
* 3)  * / %
* 4)  + -
* 5)  >> <<
* 6)  < > <= >=
* 7)  == !=
* 8)  &
* 9)  ^
* 10) |
* 11) &&
* 12) ||
*/

/*! [End] no source code translation !*/

Value
: Expression EXPOP_NEW_LINE      { PrParserResult=$1; return 0; } /* End of line (newline) */
| Expression EXPOP_EOF          { PrParserResult=$1; return 0; } /* End of string (0) */
;

Expression

/*
Unary operators */

: EXPOP_LOGICAL_NOT    Expression    { $$ = DtDoOperator ($2, EXPOP_LOGICAL_NOT,  $2);}
| EXPOP_ONES_COMPLIMENT Expression    { $$ = DtDoOperator ($2,
EXPOP_ONES_COMPLIMENT, $2);}

/* Binary operators */

```



```

| Expression EXPOP_MULTIPLY      Expression { $$ = DtDoOperator ($1, EXPOP_MULTIPLY,    $3);}
| Expression EXPOP_DIVIDE        Expression { $$ = DtDoOperator ($1, EXPOP_DIVIDE,    $3);}
| Expression EXPOP_MODULO        Expression { $$ = DtDoOperator ($1, EXPOP_MODULO,    $3);}
| Expression EXPOP_ADD           Expression { $$ = DtDoOperator ($1, EXPOP_ADD,      $3);}
| Expression EXPOP_SUBTRACT      Expression { $$ = DtDoOperator ($1, EXPOP_SUBTRACT,  $3);}
| Expression EXPOP_SHIFT_RIGHT   Expression { $$ = DtDoOperator ($1, EXPOP_SHIFT_RIGHT, $3);}
| Expression EXPOP_SHIFT_LEFT    Expression { $$ = DtDoOperator ($1, EXPOP_SHIFT_LEFT,
$3);}
| Expression EXPOP_GREATER       Expression { $$ = DtDoOperator ($1, EXPOP_GREATER,    $3);}
| Expression EXPOP_LESS          Expression { $$ = DtDoOperator ($1, EXPOP_LESS,      $3);}
| Expression EXPOP_GREATER_EQUAL Expression { $$ = DtDoOperator ($1,
EXPOP_GREATER_EQUAL, $3);}
| Expression EXPOP_LESS_EQUAL    Expression { $$ = DtDoOperator ($1, EXPOP_LESS_EQUAL,
$3);}
| Expression EXPOP_EQUAL         Expression { $$ = DtDoOperator ($1, EXPOP_EQUAL,      $3);}
| Expression EXPOP_NOT_EQUAL     Expression { $$ = DtDoOperator ($1, EXPOP_NOT_EQUAL,
$3);}
| Expression EXPOP_AND           Expression { $$ = DtDoOperator ($1, EXPOP_AND,        $3);}
| Expression EXPOP_XOR           Expression { $$ = DtDoOperator ($1, EXPOP_XOR,        $3);}
| Expression EXPOP_OR            Expression { $$ = DtDoOperator ($1, EXPOP_OR,         $3);}
| Expression EXPOP_LOGICAL_AND   Expression { $$ = DtDoOperator ($1, EXPOP_LOGICAL_AND,  $3);}
| Expression EXPOP_LOGICAL_OR    Expression { $$ = DtDoOperator ($1, EXPOP_LOGICAL_OR,
$3);}

/* Parentheses: '(' Expression ')' */

| EXPOP_PAREN_OPEN      Expression
  EXPOP_PAREN_CLOSE      { $$ = $2;}

/* #if defined (ID) or #if defined ID */

| EXPOP_DEFINE EXPOP_PAREN_OPEN EXPOP_IDENTIFIER
  EXPOP_PAREN_CLOSE      { $$ = PrIsDefined (PrParserlval.str);}

| EXPOP_DEFINE EXPOP_IDENTIFIER      { $$ = PrIsDefined (PrParserlval.str);}

| EXPOP_IDENTIFIER      { $$ = PrResolveDefine (PrParserlval.str);}

/* Default base for a non-prefixed integer is 10 */

| EXPOP_NUMBER          { AcpiUtStrtol64 (PrParsertext, &$);}

/* Standard hex number (0x1234) */

| EXPOP_HEX_NUMBER      { AcpiUtStrtol64 (PrParsertext, &$);}

```



```

;
%%

/*
 * Local support functions, including parser entry point
 */
#define PR_FIRST_PARSE_OPCODE EXPOP_EOF
#define PR_YYTNAME_START      3

/*****
 *
 * FUNCTION:  PrParsererror
 *
 * PARAMETERS: Message          - Parser-generated error message
 *
 * RETURN:    None
 *
 * DESCRIPTION: Handler for parser errors
 *
 *****/

void
PrParsererror (
    char const      *Message)
{

    sprintf (AslGbl_StringBuffer, "Preprocessor Parser : %s (near line %u)",
        Message, AslGbl_CurrentLineNumber);
    DtError (ASL_ERROR, ASL_MSG_SYNTAX,
        NULL, (char *) AslGbl_StringBuffer);
}

/*****
 *
 * FUNCTION:  PrGetOpName
 *
 * PARAMETERS: ParseOpcode      - Parser token (EXPOP_*)
 *
 * RETURN:    Pointer to the opcode name
 *
 * DESCRIPTION: Get
 *              the ascii name of the parse opcode for debug output
 *
 *****/

char *

```



```

PrGetOpName (
    UINT32          ParseOpcode)
{
#ifdef ASL_YYTNAME_START
    /*
     * First entries (PR_YYTNAME_START) in yytname are special reserved names.
     * Ignore first 6 characters of name (EXPOP_)
     */
    return ((char *) yytname
        [(ParseOpcode - PR_FIRST_PARSE_OPCODE) + PR_YYTNAME_START] + 6);
#else
    return ("[Unknown parser generator]");
#endif
}

/*****
 *
 * FUNCTION:  PrEvaluateExpression
 *
 * PARAMETERS: ExprString      - Expression to be evaluated. Must be
 *                               terminated by either a newline or a NUL
 *                               string terminator
 *
 * RETURN:    64-bit value for the expression
 *
 * DESCRIPTION: Main entry point for the DT expression parser
 */
*****/

UINT64
PrEvaluateExpression
(
    char          *ExprString)
{
    DbgPrint (ASL_DEBUG_OUTPUT,
        "**** Input expression: %s\n", ExprString);

    /* Point lexer to the input string */

    if (PrInitLexer (ExprString))
    {
        DtError (ASL_ERROR, ASL_MSG_COMPILER_INTERNAL,
            NULL, "Could not initialize lexer");
        return (0);
    }
}

```



```

/* Parse/Evaluate the input string (value returned in PrParserResult) */

PrParserparse ();
PrTerminateLexer ();

DbgPrint (ASL_DEBUG_OUTPUT,
    "**** Parser returned value: %u (%8.8X%8.8X)\n",
    (UINT32) PrParserResult, ACPI_FORMAT_UINT64 (PrParserResult));

return (PrParserResult);
}

Found in path(s):
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/prparser.y
No license file was found, but licenses were detected in source scan.

%{
/*****
*
* Module Name: aslparser.y - Master Bison/Yacc input file for iASL
*
*****/

/*****
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\*\*\*\*\*/

```
#include "aslcompiler.h"
#include "acpi.h"
#include "accommon.h"
```

```
#define _COMPONENT          ACPI_COMPILER
        ACPI_MODULE_NAME    ("aslparsed")
```

/\*

- \* Global Notes:
- \*
  - \* October 2005: The following list terms have been optimized (from the original ASL grammar in the ACPI specification) to force the immediate reduction of each list item so that the parse stack use doesn't increase on each list element and possibly overflow on very large lists (>4000 items).
  - \* This dramatically reduces use of the parse stack overall.



```

*
*   ArgList, TermList, ByteList,
*   DWordList, PackageList,
*   ResourceMacroList, and FieldUnitList
*/

void *
AslLocalAllocate (
    unsigned int    Size);

/* Bison/yacc configuration */

#define static
#undef malloc
#define malloc      AslLocalAllocate
#undef alloca
#define alloca      AslLocalAllocate
#define yyname      AslCompilername

#define YYINITDEPTH    600        /* State stack depth */
#define YYDEBUG        1          /* Enable debug output */
#define YYERROR_VERBOSE 1         /* Verbose error messages */
#define YYFLAG        -32768

/* Define YYMALLOC/YYFREE to prevent redefinition errors */

#define YYMALLOC      AslLocalAllocate
#define YYFREE        ACPI_FREE
%}

/*
* Declare the type of values in the grammar
*/
%union {
    UINT64        i;
    char          *s;
    ACPI_PARSE_OBJECT *n;
}

/*
* These shift/reduce conflicts are expected. There should be zero
* reduce/reduce conflicts.
*/
%expect
124

/*! [Begin] no source code translation */

```



```

/*
* The M4 macro processor is used to bring in the parser items,
* in order to keep this master file smaller, and to break up
* the various parser items.
*/
m4_define(NoEcho)

/* Token types */

m4_include(asltokens.y)

/* Production types/names */

m4_include(asltypes.y)
%%

/* Production rules */

m4_include(aslrules.y)
m4_include(aslprimaries.y)
m4_include(aslcstyle.y)
m4_include(aslkeywords.y)
m4_include(aslresources.y)
m4_include(aslhelpers.y)
%%

/*! [End] no source code translation !*/

/* Local support functions in C */

m4_include(aslsupport.y)

Found in path(s):
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslparser.y
No license file was found, but licenses were detected in source scan.

NoEcho('
/*****
*
* Module Name: aslhelpers.y - helper and option terms
*
*****/

/*****
*
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\*\*\*\*\*/

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\*\*\*\*\*/

\*

\* ASL Helper Terms

\*

\*\*\*\*\*/

OptionalBusMasterKeyword

```
: '          { $$ = TrCreateLeafOp (
                PARSEOP_BUSMASTERTYPE_MASTER); }
| ' PARSEOP_BUSMASTERTYPE_MASTER    { $$ = TrCreateLeafOp (
                PARSEOP_BUSMASTERTYPE_MASTER); }
| ' PARSEOP_BUSMASTERTYPE_NOTMASTER { $$ = TrCreateLeafOp
(
                PARSEOP_BUSMASTERTYPE_NOTMASTER); }
;
```

OptionalAccessAttribTerm

```
:          { $$ = NULL; }
| '        { $$ = NULL; }
| ' ByteConstExpr    { $$ = $2; }
| ' AccessAttribKeyword { $$ = $2; }
;
```

OptionalAccessSize

```
:          { $$ = TrCreateValuedLeafOp (
                PARSEOP_BYTECONST, 0); }
| '        { $$ = TrCreateValuedLeafOp (
                PARSEOP_BYTECONST, 0); }
| ' ByteConstExpr    { $$ = $2; }
;
```

OptionalAccessTypeKeyword /\* Default: AnyAcc \*/

```
:          { $$ = TrCreateLeafOp (
                PARSEOP_ACCESSTYPE_ANY); }
| '        { $$ = TrCreateLeafOp (
                PARSEOP_ACCESSTYPE_ANY); }
| ' AccessTypeKeyword    { $$ = $2; }
;
```

OptionalAddressingMode



```

: ''          {$$ = NULL;}
| ',' AddressingModeKeyword    {$$ = $2;}
;

```

#### OptionalAddressRange

```

:          {$$ = NULL;}
| ''       {$$ = NULL;}
| ',' AddressKeyword    {$$ = $2;}
;

```

#### OptionalBitsPerByte

```

: ''          {$$ = NULL;}
| ',' BitsPerByteKeyword    {$$ = $2;}
;

```

#### OptionalBuffer\_Last

```

:          {$$ = NULL;}
| ''       {$$ = NULL;}
| ',' RawDataBufferTerm    {$$ = $2;}
;

```

#### OptionalByteConstExpr

```

:          {$$ = NULL;}
| ''       {$$ = NULL;}
| ',' ByteConstExpr        {$$ = $2;}
;

```

#### OptionalDecodeType

```

: ''          {$$ = NULL;}
| ',' DecodeKeyword        {$$ = $2;}
;

```

#### OptionalDevicePolarity

```

: ''          {$$ = NULL;}
| ',' DevicePolarityKeyword
{$$ = $2;}
;

```

#### OptionalDWordConstExpr

```

:          {$$ = NULL;}
| ''       {$$ = NULL;}
| ',' DWordConstExpr       {$$ = $2;}
;

```

#### OptionalEndian

```

: ''          {$$ = NULL;}
| ',' EndianKeyword        {$$ = $2;}
;

```



#### OptionalFlowControl

```
: ','          {$$ = NULL;}
| ',' FlowControlKeyword    {$$ = $2;}
;
```

#### OptionalIoRestriction

```
: ','          {$$ = NULL;}
| ',' IoRestrictionKeyword  {$$ = $2;}
;
```

#### OptionalListString

```
:          {$$ = TrCreateValuedLeafOp (
            PARSEOP_STRING_LITERAL,
            ACPI_TO_INTEGER (""));} /* Placeholder is a NULL string */
| ','      {$$ = TrCreateValuedLeafOp (
            PARSEOP_STRING_LITERAL,
            ACPI_TO_INTEGER (""));}
/* Placeholder is a NULL string */
| ',' TermArg      {$$ = $2;}
;
```

#### OptionalLockRuleKeyword /\* Default: NoLock \*/

```
:          {$$ = TrCreateLeafOp (
            PARSEOP_LOCKRULE_NOLOCK);}
| ','      {$$ = TrCreateLeafOp (
            PARSEOP_LOCKRULE_NOLOCK);}
| ',' LockRuleKeyword      {$$ = $2;}
;
```

#### OptionalMaxType

```
: ','          {$$ = NULL;}
| ',' MaxKeyword      {$$ = $2;}
;
```

#### OptionalMemType

```
: ','          {$$ = NULL;}
| ',' MemTypeKeyword      {$$ = $2;}
;
```

#### OptionalMinType

```
: ','          {$$ = NULL;}
| ',' MinKeyword      {$$ = $2;}
;
```

#### OptionalNameString

```
:          {$$ = NULL;}
| ','      {$$ = NULL;}
;
```



```

| ' NameString          { $$ = $2; }
;

OptionalNameString_Last
:
    { $$ = NULL; }
| '
    { $$ = NULL; }
| ' NameString          { $$ = $2; }
;

OptionalNameString_First
:
    { $$ = TrCreateLeafOp (
        PARSEOP_ZERO); }
| NameString            { $$ = $1; }
;

OptionalObjectTypeKeyword
:
    { $$ = TrCreateLeafOp (
        PARSEOP_OBJECTTYPE_UNK); }
| ' ObjectTypeKeyword   { $$ = $2; }
;

OptionalParityType
: '
    { $$ = NULL; }
| ' ParityTypeKeyword   { $$ = $2; }
;

OptionalQWordConstExpr
:
    { $$ = NULL; }
| '
    { $$ = NULL; }
| ' QWordConstExpr      { $$ = $2; }
;

OptionalRangeType
: '
    { $$ = NULL; }
| ' RangeTypeKeyword     { $$ = $2; }
;

OptionalReadWriteKeyword
:
    { $$ = TrCreateLeafOp (
        PARSEOP_READWRITETYPE_BOTH); }
| PARSEOP_READWRITETYPE_BOTH { $$ = TrCreateLeafOp (
        PARSEOP_READWRITETYPE_BOTH); }
| PARSEOP_READWRITETYPE_READONLY { $$ = TrCreateLeafOp (
        PARSEOP_READWRITETYPE_READONLY); }
;

OptionalResourceType_First

```



```

:                {$$ = TrCreateLeafOp (
                    PARSEOP_RESOURCECETYPE_CONSUMER);}
| ResourceTypeKeyword    {$$ = $1;}
;

```

#### OptionalResourceType

```

:                {$$ = TrCreateLeafOp (
                    PARSEOP_RESOURCECETYPE_CONSUMER);}
| ','            {$$ = TrCreateLeafOp (
                    PARSEOP_RESOURCECETYPE_CONSUMER);}
| ',' ResourceTypeKeyword    {$$ = $2;}
;

```

/\* Same as above except default  
is producer \*/

#### OptionalProducerResourceType

```

:                {$$ = TrCreateLeafOp (
                    PARSEOP_RESOURCECETYPE_PRODUCER);}
| ','            {$$ = TrCreateLeafOp (
                    PARSEOP_RESOURCECETYPE_PRODUCER);}
| ',' ResourceTypeKeyword    {$$ = $2;}
;

```

#### OptionalSlaveMode

```

: ','            {$$ = NULL;}
| ',' SlaveModeKeyword    {$$ = $2;}
;

```

#### OptionalShareType

```

:                {$$ = NULL;}
| ','            {$$ = NULL;}
| ',' ShareTypeKeyword    {$$ = $2;}
;

```

#### OptionalShareType\_First

```

:                {$$ = NULL;}
| ShareTypeKeyword    {$$ = $1;}
;

```

#### OptionalStopBits

```

: ','            {$$ = NULL;}
| ',' StopBitsKeyword    {$$ = $2;}
;

```

#### OptionalStringData

```

:                {$$ = NULL;}
| ','

```



```

    {$$ = NULL;}
| ',' StringData      {$$ = $2;}
;

OptionalSyncLevel      /* Default: 0 */
:
    {$$ = TrCreateValuedLeafOp (
        PARSEOP_BYTECONST, 0);}
| ','
    {$$ = TrCreateValuedLeafOp (
        PARSEOP_BYTECONST, 0);}
| ',' ByteConstExpr    {$$ = $2;}
;

OptionalTranslationType_Last
:
    {$$ = NULL;}
| ','
    {$$ = NULL;}
| ',' TranslationKeyword    {$$ = $2;}
;

OptionalType
:
    {$$ = NULL;}
| ','
    {$$ = NULL;}
| ',' TypeKeyword          {$$ = $2;}
;

OptionalType_Last
:
    {$$ = NULL;}
| ','
    {$$ = NULL;}
| ',' TypeKeyword          {$$ = $2;}
;

OptionalUpdateRuleKeyword /* Default: Preserve */
:
    {$$ = TrCreateLeafOp (
        PARSEOP_UPDATERULE_PRESERVE);}
| ','
    {$$ = TrCreateLeafOp (
        PARSEOP_UPDATERULE_PRESERVE);}
| ',' UpdateRuleKeyword    {$$ = $2;}
;

OptionalWireMode
: ','
    {$$ = NULL;}
| ',' WireModeKeyword      {$$ = $2;}
;

OptionalWordConstExpr
: ','
    {$$ = NULL;}
| ',' WordConstExpr        {$$ = $2;}
;

```



OptionalXferSize

```
:                {$$ = TrCreateValuedLeafOp (
                    PARSEOP_XFERSIZE_32, 2);}
|','            {$$ = TrCreateValuedLeafOp (
                    PARSEOP_XFERSIZE_32, 2);}
|',' XferSizeKeyword    {$$ = $2;}
;
```

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslhelpers.y

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/\*\*\*\*\*\*

\*

\* Module Name: aslclstyle.y - Production rules for symbolic operators

\*

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/\*\*\*\*\*\*

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- \*
- \*\*\*\*\*/
- )
- /\*
- \* Production rules for the symbolic (c-style) operators
- \*
- \*\*\*\*\*/
- /\*
- \* ASL Extensions: C-style math/logical operators and expressions.
- \* The implementation transforms these operators into the standard
- \* AML opcodes and syntax.
- \*
- \* Supported operators and precedence rules (high-to-low)
- \*
- \* NOTE: The operator precedence and associativity rules are
- \* implemented by the tokens in asltokens.y



```

*
* (left-to-right):
* 1)  ( ) expr++ expr--
*
* (right-to-left):
* 2)  ! ~
*
* (left-to-right):
* 3)  * / %
* 4)  + -
* 5)  >> <<
* 6)  < > <= >=
* 7)  == !=
* 8)  &
* 9)  ^
* 10) |
* 11) &&
* 12) ||
*
* (right-to-left):
* 13) = += -= *= /= %= <<= >>= &= ^= |=
*/

/*****
*
* Basic operations for math and logical expressions.
*
*****/

```

## Expression

```

/* Unary operators */

: PARSEOP_EXP_LOGICAL_NOT      {$<n>$ = TrCreateLeafOp (PARSEOP_LNOT);}
  TermArg                      {$$ = TrLinkOpChildren ($<n>2,1,$3);}
| PARSEOP_EXP_NOT              {$<n>$ = TrCreateLeafOp (PARSEOP_NOT);}
  TermArg                      {$$ = TrLinkOpChildren ($<n>2,2,$3,TrCreateNullTargetOp ());}

| SuperName PARSEOP_EXP_INCREMENT
{$<n>$ = TrCreateLeafOp (PARSEOP_INCREMENT);}
  {$$ = TrLinkOpChildren ($<n>3,1,$1);}
| SuperName PARSEOP_EXP_DECREMENT {$<n>$ = TrCreateLeafOp (PARSEOP_DECREMENT);}
  {$$ = TrLinkOpChildren ($<n>3,1,$1);}

/* Binary operators: math and logical */

| TermArg PARSEOP_EXP_ADD      {$<n>$ = TrCreateLeafOp (PARSEOP_ADD);}

```



```

TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
| TermArg PARSEOP_EXP_DIVIDE    {$<n>$ = TrCreateLeafOp (PARSEOP_DIVIDE);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,4,$1,$4,TrCreateNullTargetOp (),
TrCreateNullTargetOp ());}
| TermArg PARSEOP_EXP_MODULO    {$<n>$ = TrCreateLeafOp (PARSEOP_MOD);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
| TermArg PARSEOP_EXP_MULTIPLY  {$<n>$ = TrCreateLeafOp (PARSEOP_MULTIPLY);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
| TermArg PARSEOP_EXP_SHIFT_LEFT {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFLEFT);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
| TermArg PARSEOP_EXP_SHIFT_RIGHT {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTRIGHT);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
| TermArg PARSEOP_EXP_SUBTRACT  {$<n>$ = TrCreateLeafOp (PARSEOP_SUBTRACT);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}

| TermArg PARSEOP_EXP_AND       {$<n>$ = TrCreateLeafOp (PARSEOP_AND);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
| TermArg PARSEOP_EXP_OR        {$<n>$ = TrCreateLeafOp (PARSEOP_OR);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
| TermArg PARSEOP_EXP_XOR       {$<n>$ = TrCreateLeafOp (PARSEOP_XOR);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}

| TermArg PARSEOP_EXP_GREATER   {$<n>$ = TrCreateLeafOp (PARSEOP_LGREATER);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
| TermArg PARSEOP_EXP_GREATER_EQUAL {$<n>$ = TrCreateLeafOp
(PARSEOP_LGREATEREQUAL);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
| TermArg PARSEOP_EXP_LESS      {$<n>$ = TrCreateLeafOp (PARSEOP_LLESS);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
| TermArg PARSEOP_EXP_LESS_EQUAL {$<n>$ = TrCreateLeafOp (PARSEOP_LLESSEQUAL);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}

| TermArg PARSEOP_EXP_EQUAL
{$<n>$ = TrCreateLeafOp (PARSEOP_LEQUAL);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
| TermArg PARSEOP_EXP_NOT_EQUAL {$<n>$ = TrCreateLeafOp (PARSEOP_LNOTEQUAL);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}

| TermArg PARSEOP_EXP_LOGICAL_AND {$<n>$ = TrCreateLeafOp (PARSEOP_LAND);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
| TermArg PARSEOP_EXP_LOGICAL_OR {$<n>$ = TrCreateLeafOp (PARSEOP_LOR);}
TermArg          {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}

/* Parentheses */

| PARSEOP_OPEN_PAREN
Expression

```



```

        PARSEOP_CLOSE_PAREN          {$$ = $2;}

/* Index term -- "= BUF1[5]" on right-hand side of an equals (source) */

| IndexExpTerm
;

/*
 * Index term -- "BUF1[5] = " or " = BUF1[5] on either the left side
 * of an equals (target) or the right side (source)
 * Currently used in
these terms:
 *   Expression
 *   ObjectTypeSource
 *   DerefOfSource
 *   Type6Opcode
 */
IndexExpTerm

: SuperName
  PARSEOP_EXP_INDEX_LEFT
  TermArg
  PARSEOP_EXP_INDEX_RIGHT      {$$ = TrCreateLeafOp (PARSEOP_INDEX);
                                TrLinkOpChildren ($$,3,$1,$3,TrCreateNullTargetOp ());}
;

/*****
 *
 * All assignment-type operations -- math and logical. Includes simple
 * assignment and compound assignments.
 *
 *****/

EqualsTerm

/* Allow parens anywhere */

: PARSEOP_OPEN_PAREN
  EqualsTerm
  PARSEOP_CLOSE_PAREN          {$$ = $2;}

/* Simple Store() operation */

| SuperName
  PARSEOP_EXP_EQUALS
  TermArg                      {$$ = TrCreateAssignmentOp ($1, $3);}

```



```
/* Chained equals: (a=RefOf)=b, a=b=c=d
etc. */
```

```
| PARSEOP_OPEN_PAREN
  EqualsTerm
  PARSEOP_CLOSE_PAREN
  PARSEOP_EXP_EQUALS
  TermArg          {$$ = TrCreateAssignmentOp ($2, $5);}

/* Compound assignments -- Add (operand, operand, target) */

| TermArg PARSEOP_EXP_ADD_EQ    {$<n>$ = TrCreateLeafOp (PARSEOP_ADD);}
  TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                           TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

| TermArg PARSEOP_EXP_DIV_EQ    {$<n>$ = TrCreateLeafOp (PARSEOP_DIVIDE);}
  TermArg          {$$ = TrLinkOpChildren ($<n>3,4,$1,$4,TrCreateNullTargetOp (),
                                           TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

| TermArg PARSEOP_EXP_MOD_EQ    {$<n>$ = TrCreateLeafOp (PARSEOP_MOD);}
  TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                           TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

| TermArg PARSEOP_EXP_MUL_EQ    {$<n>$ = TrCreateLeafOp (PARSEOP_MULTIPLY);}
  TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                           TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

| TermArg PARSEOP_EXP_SHL_EQ    {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFLEFT);}
  TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                           TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

| TermArg PARSEOP_EXP_SHR_EQ    {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTRIGHT);}
  TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                           TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

| TermArg PARSEOP_EXP_SUB_EQ    {$<n>$ = TrCreateLeafOp (PARSEOP_SUBTRACT);}
  TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                           TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

| TermArg PARSEOP_EXP_AND_EQ    {$<n>$ = TrCreateLeafOp (PARSEOP_AND);}
  TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                           TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

| TermArg PARSEOP_EXP_OR_EQ     {$<n>$ = TrCreateLeafOp (PARSEOP_OR);}
  TermArg          {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                           TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}
```



```

| TermArg PARSEOP_EXP_XOR_EQ      {$<n>$ = TrCreateLeafOp (PARSEOP_XOR);}
  TermArg                        {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}
;

```

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslclstyle.y

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)

/\*\*\*\*\*\*

- \*
- \* Production names
- \*

\*\*\*\*\*/

%type <n> ArgList

%type <n> AslCode

%type <n> BufferData

%type <n> BufferTermData

%type <n> CompilerDirective

%type <n> DataObject

%type <n> DefinitionBlockTerm

%type <n> DefinitionBlockList

%type <n> IntegerData

%type <n> NamedObject

%type <n> NameSpaceModifier

%type <n> Object

%type <n> PackageData

%type <n> ParameterTypePackage



```

%type <n> ParameterTypePackageList
%type <n>
ParameterTypesPackage
%type <n> ParameterTypesPackageList
%type <n> RequiredTarget
%type <n> SimpleName
%type <n> StringData
%type <n> StringLiteral
%type <n> Target
%type <n> Term
%type <n> TermArg
%type <n> TermList
%type <n> MethodInvocationTerm

```

```

/* Type4Opcode is obsolete */

```

```

%type <n> Type1Opcode
%type <n> Type2BufferOpcode
%type <n> Type2BufferOrStringOpcode
%type <n> Type2IntegerOpcode
%type <n> Type2Opcode
%type <n> Type2StringOpcode
%type <n> Type3Opcode
%type <n> Type5Opcode
%type <n> Type6Opcode

```

```

%type <n> AccessAsTerm
%type <n> ExternalTerm
%type <n> FieldUnit
%type <n> FieldUnitEntry
%type <n> FieldUnitList
%type <n> IncludeTerm
%type <n> OffsetTerm
%type <n> OptionalAccessAttribTerm

```

```

/* Named Objects */

```

```

%type <n> BankFieldTerm
%type <n> CreateBitFieldTerm
%type <n> CreateByteFieldTerm
%type <n> CreateDWordFieldTerm
%type <n> CreateFieldTerm
%type <n> CreateQWordFieldTerm
%type <n> CreateWordFieldTerm
%type <n> DataRegionTerm
%type <n> DeviceTerm
%type <n> EventTerm
%type

```



<n> FieldTerm  
%type <n> FunctionTerm  
%type <n> IndexFieldTerm  
%type <n> MethodTerm  
%type <n> MutexTerm  
%type <n> OpRegionTerm  
%type <n> OpRegionSpaceIdTerm  
%type <n> PowerResTerm  
%type <n> ProcessorTerm  
%type <n> ThermalZoneTerm

/\* Namespace modifiers \*/

%type <n> AliasTerm  
%type <n> NameTerm  
%type <n> ScopeTerm

/\* Type 1 opcodes \*/

%type <n> BreakPointTerm  
%type <n> BreakTerm  
%type <n> CaseDefaultTermList  
%type <n> CaseTerm  
%type <n> ContinueTerm  
%type <n> DefaultTerm  
%type <n> ElseTerm  
%type <n> FatalTerm  
%type <n> ElseIfTerm  
%type <n> IfTerm  
%type <n> LoadTerm  
%type <n> NoOpTerm  
%type <n> NotifyTerm  
%type <n> ReleaseTerm  
%type <n> ResetTerm  
%type <n> ReturnTerm  
%type <n> SignalTerm  
%type <n> SleepTerm  
%type <n> StallTerm  
%type <n> SwitchTerm  
%type <n> UnloadTerm  
%type <n> WhileTerm

/\* %type <n> CaseTermList \*/

/\* Type 2 opcodes \*/

%type <n> AcquireTerm  
%type <n> AddTerm  
%type <n> AndTerm



%type <n> ConcatResTerm  
%type <n> ConcatTerm  
%type <n> CondRefOfTerm  
%type <n> CopyObjectTerm  
%type  
    <n> DecTerm  
%type <n> DerefOfTerm  
%type <n> DivideTerm  
%type <n> FindSetLeftBitTerm  
%type <n> FindSetRightBitTerm  
%type <n> FromBCDTerm  
%type <n> IncTerm  
%type <n> IndexTerm  
%type <n> LAndTerm  
%type <n> LEqualTerm  
%type <n> LGreaterEqualTerm  
%type <n> LGreaterTerm  
%type <n> LLessEqualTerm  
%type <n> LLessTerm  
%type <n> LNotEqualTerm  
%type <n> LNotTerm  
%type <n> LoadTableTerm  
%type <n> LOrTerm  
%type <n> MatchTerm  
%type <n> MidTerm  
%type <n> ModTerm  
%type <n> MultiplyTerm  
%type <n> NAndTerm  
%type <n> NOrTerm  
%type <n> NotTerm  
%type <n> ObjectTypeTerm  
%type <n> OrTerm  
%type <n> RawDataBufferTerm  
%type <n> RefOfTerm  
%type <n> ShiftLeftTerm  
%type <n> ShiftRightTerm  
%type <n> SizeOfTerm  
%type <n> StoreTerm  
%type <n> SubtractTerm  
%type <n> TimerTerm  
%type <n> ToBCDTerm  
%type <n> ToBufferTerm  
%type <n> ToDecimalStringTerm  
%type <n> ToHexStringTerm  
%type <n> ToIntegerTerm  
%type <n> ToStringTerm  
%type <n> WaitTerm  
%type <n> XOrTerm



/\* Keywords \*/

%type <n> AccessAttribKeyword  
%type <n>  
AccessTypeKeyword  
%type <n> AddressingModeKeyword  
%type <n> AddressKeyword  
%type <n> AddressSpaceKeyword  
%type <n> BitsPerByteKeyword  
%type <n> ClockPhaseKeyword  
%type <n> ClockPolarityKeyword  
%type <n> DecodeKeyword  
%type <n> DevicePolarityKeyword  
%type <n> DMATypeKeyword  
%type <n> EndianKeyword  
%type <n> FlowControlKeyword  
%type <n> InterruptLevel  
%type <n> InterruptTypeKeyword  
%type <n> IODecodeKeyword  
%type <n> IoRestrictionKeyword  
%type <n> LockRuleKeyword  
%type <n> MatchOpKeyword  
%type <n> MaxKeyword  
%type <n> MemTypeKeyword  
%type <n> MinKeyword  
%type <n> ObjectTypeKeyword  
%type <n> OptionalBusMasterKeyword  
%type <n> OptionalReadWriteKeyword  
%type <n> ParityTypeKeyword  
%type <n> PinConfigByte  
%type <n> PinConfigKeyword  
%type <n> RangeTypeKeyword  
%type <n> RegionSpaceKeyword  
%type <n> ResourceTypeKeyword  
%type <n> SerializeRuleKeyword  
%type <n> ShareTypeKeyword  
%type <n> SlaveModeKeyword  
%type <n> StopBitsKeyword  
%type <n> TranslationKeyword  
%type <n> TypeKeyword  
%type <n> UpdateRuleKeyword  
%type  
<n> WireModeKeyword  
%type <n> XferSizeKeyword  
%type <n> XferTypeKeyword

/\* Types \*/



```

%type <n> SuperName
%type <n> ObjectTypeSource
%type <n> DerefOfSource
%type <n> RefOfSource
%type <n> CondRefOfSource
%type <n> ArgTerm
%type <n> LocalTerm
%type <n> DebugTerm

%type <n> Integer
%type <n> ByteConst
%type <n> WordConst
%type <n> DWordConst
%type <n> QWordConst
%type <n> String

%type <n> ConstTerm
%type <n> ConstExprTerm
%type <n> ByteConstExpr
%type <n> WordConstExpr
%type <n> DWordConstExpr
%type <n> QWordConstExpr

%type <n> DWordList
%type <n> BufferTerm
%type <n> ByteList

%type <n> PackageElement
%type <n> PackageList
%type <n> PackageTerm

/* Macros */

%type <n> EISAIDTerm
%type <n> ResourceMacroList
%type <n> ResourceMacroTerm
%type <n> ResourceTemplateTerm
%type <n> PldKeyword
%type <n> PldKeywordList
%type <n> ToPLDTerm
%type <n> ToUUIDTerm
%type <n> UnicodeTerm
%type <n> PrintfArgList
%type <n> PrintfTerm
%type <n> FprintfTerm
%type <n> ForTerm

```



/\* Resource  
Descriptors \*/

%type <n> ConnectionTerm  
%type <n> DMATerm  
%type <n> DWordIOTerm  
%type <n> DWordMemoryTerm  
%type <n> DWordSpaceTerm  
%type <n> EndDependentFnTerm  
%type <n> ExtendedIOTerm  
%type <n> ExtendedMemoryTerm  
%type <n> ExtendedSpaceTerm  
%type <n> FixedDmaTerm  
%type <n> FixedIOTerm  
%type <n> GpioIntTerm  
%type <n> GpioIoTerm  
%type <n> I2cSerialBusTerm  
%type <n> I2cSerialBusTermV2  
%type <n> InterruptTerm  
%type <n> IOTerm  
%type <n> IRQNoFlagsTerm  
%type <n> IRQTerm  
%type <n> Memory24Term  
%type <n> Memory32FixedTerm  
%type <n> Memory32Term  
%type <n> NameSeg  
%type <n> NameString  
%type <n> PinConfigTerm  
%type <n> PinFunctionTerm  
%type <n> PinGroupTerm  
%type <n> PinGroupConfigTerm  
%type <n> PinGroupFunctionTerm  
%type <n> QWordIOTerm  
%type <n> QWordMemoryTerm  
%type <n> QWordSpaceTerm  
%type <n> RegisterTerm  
%type <n> SpiSerialBusTerm  
%type <n> SpiSerialBusTermV2  
%type <n> StartDependentFnNoPriTerm  
%type <n> StartDependentFnTerm  
%type <n> UartSerialBusTerm  
%type <n> UartSerialBusTermV2  
%type  
    <n> VendorLongTerm  
%type <n> VendorShortTerm  
%type <n> WordBusNumberTerm  
%type <n> WordIOTerm  
%type <n> WordSpaceTerm



/\* Local types that help construct the AML, not in ACPI spec \*/

%type <n> AmlPackageLengthTerm  
%type <n> IncludeEndTerm  
%type <n> NameStringItem  
%type <n> TermArgItem  
  
%type <n> OptionalAccessSize  
%type <n> OptionalAccessTypeKeyword  
%type <n> OptionalAddressingMode  
%type <n> OptionalAddressRange  
%type <n> OptionalBitsPerByte  
%type <n> OptionalBuffer\_Last  
%type <n> OptionalByteConstExpr  
%type <n> OptionalCount  
%type <n> OptionalDataCount  
%type <n> OptionalDecodeType  
%type <n> OptionalDevicePolarity  
%type <n> OptionalDWordConstExpr  
%type <n> OptionalEndian  
%type <n> OptionalFlowControl  
%type <n> OptionalIoRestriction  
%type <n> OptionalListString  
%type <n> OptionalLockRuleKeyword  
%type <n> OptionalMaxType  
%type <n> OptionalMemType  
%type <n> OptionalMinType  
%type <n> OptionalNameString  
%type <n> OptionalNameString\_First  
%type <n> OptionalNameString\_Last  
%type <n> OptionalObjectTypeKeyword  
%type  
    <n> OptionalParameterTypePackage  
%type <n> OptionalParameterTypesPackage  
%type <n> OptionalParentheses  
%type <n> OptionalParityType  
%type <n> OptionalPredicate  
%type <n> OptionalQWordConstExpr  
%type <n> OptionalRangeType  
%type <n> OptionalReference  
%type <n> OptionalResourceType  
%type <n> OptionalResourceType\_First  
%type <n> OptionalProducerResourceType  
%type <n> OptionalReturnArg  
%type <n> OptionalSerializeRuleKeyword  
%type <n> OptionalShareType  
%type <n> OptionalShareType\_First



```

%type <n> OptionalSlaveMode
%type <n> OptionalStopBits
%type <n> OptionalStringData
%type <n> OptionalSyncLevel
%type <n> OptionalTermArg
%type <n> OptionalTranslationType_Last
%type <n> OptionalType
%type <n> OptionalType_Last
%type <n> OptionalUpdateRuleKeyword
%type <n> OptionalWireMode
%type <n> OptionalWordConst
%type <n> OptionalWordConstExpr
%type <n> OptionalXferSize

/*
 * ASL+ (C-style) parser
 */

/* Expressions and symbolic operators */

%type <n> Expression
%type <n> EqualsTerm
%type
<n> IndexExpTerm

/* ASL+ Named object declaration support */
/*
%type <n> NameTermAslPlus

%type <n> BufferBegin
%type <n> BufferEnd
%type <n> PackageBegin
%type <n> PackageEnd
%type <n> OptionalLength
*/
/* ASL+ Structure declarations */
/*
%type <n> StructureTerm
%type <n> StructureTermBegin
%type <n> StructureType
%type <n> StructureTag
%type <n> StructureElementList
%type <n> StructureElement
%type <n> StructureElementType
%type <n> OptionalStructureElementType
%type <n> StructureId
*/
/* Structure instantiation */

```



```

/*
%type <n> StructureInstanceTerm
%type <n> StructureTagReference
%type <n> StructureInstanceEnd
*/

/* Pseudo-instantiation for method Args/Locals */
/*
%type <n> MethodStructureTerm
%type <n> LocalStructureName
*/

/* Direct structure references via the Index operator */
/*
%type <n> StructureReference
%type <n> StructureIndexTerm
%type <n> StructurePointerTerm
%type <n> StructurePointerReference
%type <n> OptionalDefinePointer
*/

```

Found in path(s):

```

*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/asltypes.y

```

No license file was found, but licenses were detected in source scan.

```

%{
/*****
*
* Module Name: dtparser.y - Bison input file for table compiler parser
*
*****/

/*****
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*****/

```

```

#include "aslcompiler.h"

```

```

#define _COMPONENT      DT_COMPILER
        ACPI_MODULE_NAME    ("dtparser")

```

```

void *      AslLocalAllocate (unsigned int Size);

```

```

/* Bison/yacc configuration */

```



```

#undef alloca
#define alloca      AslLocalAllocate

int      DtParserlex (void);
int      DtParserparse (void);
void     DtParsererror (char const *msg);
extern char      *DtParsertext;
extern DT_FIELD      *AslGbl_CurrentField;

UINT64      DtParserResult; /*
Expression return value */

/* Bison/yacc configuration */

#define yyname      DtParsername
#define YYDEBUG      1      /* Enable debug output */
#define YYERROR_VERBOSE  1      /* Verbose error messages */
#define YYFLAG      -32768

/* Define YYMALLOC/YYFREE to prevent redefinition errors */

#define YYMALLOC      malloc
#define YYFREE      free
% }

%union
{
    UINT64      value;
    UINT32      op;
}

/*! [Begin] no source code translation */

%type <value> Expression

%token <op>      OP_EXP_EOF
%token <op>      OP_EXP_NEW_LINE
%token <op>      OP_EXP_NUMBER
%token <op>      OP_EXP_HEX_NUMBER
%token <op>      OP_EXP_DECIMAL_NUMBER
%token <op>      OP_EXP_LABEL
%token <op>      OP_EXP_PAREN_OPEN
%token <op>      OP_EXP_PAREN_CLOSE

%left <op>      OP_EXP_LOGICAL_OR
%left <op>      OP_EXP_LOGICAL_AND
%left <op>      OP_EXP_OR

```



```

%left <op>   OP_EXP_XOR
%left <op>   OP_EXP_AND
%left <op>   OP_EXP_EQUAL
OP_EXP_NOT_EQUAL
%left <op>   OP_EXP_GREATER OP_EXP_LESS OP_EXP_GREATER_EQUAL OP_EXP_LESS_EQUAL
%left <op>   OP_EXP_SHIFT_RIGHT OP_EXP_SHIFT_LEFT
%left <op>   OP_EXP_ADD OP_EXP_SUBTRACT
%left <op>   OP_EXP_MULTIPLY OP_EXP_DIVIDE OP_EXP_MODULO
%right <op>  OP_EXP_ONES_COMPLIMENT OP_EXP_LOGICAL_NOT

%%

/*
 * Operator precedence rules (from K&R)
 *
 * 1)  ( )
 * 2)  ! ~ (unary operators that are supported here)
 * 3)  * / %
 * 4)  + -
 * 5)  >> <<
 * 6)  < > <= >=
 * 7)  == !=
 * 8)  &
 * 9)  ^
 * 10) |
 * 11) &&
 * 12) ||
 */
Value
: Expression OP_EXP_NEW_LINE      { DtParserResult=$1; return 0; } /* End of line (newline) */
| Expression OP_EXP_EOF          { DtParserResult=$1; return 0; } /* End of string (0) */
;

Expression

/* Unary operators */

: OP_EXP_LOGICAL_NOT      Expression      { $$ = DtDoOperator ($2, OP_EXP_LOGICAL_NOT,
    $2);}
| OP_EXP_ONES_COMPLIMENT Expression      { $$ = DtDoOperator ($2,
OP_EXP_ONES_COMPLIMENT, $2);}

/* Binary operators */

| Expression OP_EXP_MULTIPLY Expression { $$ = DtDoOperator ($1, OP_EXP_MULTIPLY,    $3);}
| Expression OP_EXP_DIVIDE   Expression { $$ = DtDoOperator ($1, OP_EXP_DIVIDE,      $3);}
| Expression OP_EXP_MODULO   Expression { $$ = DtDoOperator ($1, OP_EXP_MODULO,      $3);}
| Expression OP_EXP_ADD      Expression { $$ = DtDoOperator ($1, OP_EXP_ADD,         $3);}

```



```

| Expression OP_EXP_SUBTRACT      Expression { $$ = DtDoOperator ($1, OP_EXP_SUBTRACT,
$3);}
| Expression OP_EXP_SHIFT_RIGHT   Expression { $$ = DtDoOperator ($1, OP_EXP_SHIFT_RIGHT,
$3);}
| Expression OP_EXP_SHIFT_LEFT    Expression { $$ = DtDoOperator ($1, OP_EXP_SHIFT_LEFT,    $3);}
| Expression OP_EXP_GREATER       Expression { $$ = DtDoOperator ($1, OP_EXP_GREATER,
    $3);}
| Expression OP_EXP_LESS          Expression { $$ = DtDoOperator ($1, OP_EXP_LESS,          $3);}
| Expression OP_EXP_GREATER_EQUAL Expression { $$ = DtDoOperator ($1,
OP_EXP_GREATER_EQUAL, $3);}
| Expression OP_EXP_LESS_EQUAL    Expression { $$ = DtDoOperator ($1, OP_EXP_LESS_EQUAL,
$3);}
| Expression OP_EXP_EQUAL         Expression { $$ = DtDoOperator ($1, OP_EXP_EQUAL,         $3);}
| Expression OP_EXP_NOT_EQUAL     Expression { $$ = DtDoOperator ($1, OP_EXP_NOT_EQUAL,
$3);}
| Expression OP_EXP_AND           Expression { $$ = DtDoOperator ($1, OP_EXP_AND,           $3);}
| Expression OP_EXP_XOR           Expression { $$ = DtDoOperator ($1, OP_EXP_XOR,           $3);}
| Expression OP_EXP_OR            Expression { $$ = DtDoOperator ($1, OP_EXP_OR,            $3);}
| Expression OP_EXP_LOGICAL_AND   Expression { $$ = DtDoOperator ($1, OP_EXP_LOGICAL_AND,
$3);}
| Expression
OP_EXP_LOGICAL_OR      Expression { $$ = DtDoOperator ($1, OP_EXP_LOGICAL_OR,      $3);}

/* Parentheses: '(' Expression ')' */

| OP_EXP_PAREN_OPEN      Expression
  OP_EXP_PAREN_CLOSE      { $$ = $2;}

/* Label references (prefixed with $) */

| OP_EXP_LABEL           { $$ = DtResolveLabel (DtParsertext);}

/*
* All constants for the data table compiler are in hex, whether a (optional) 0x
* prefix is present or not. For example, these two input strings are equivalent:
* 1234
* 0x1234
*/

/* Non-prefixed hex number */

| OP_EXP_NUMBER          { $$ = DtDoConstant (DtParsertext);}

/* Standard hex number (0x1234) */

| OP_EXP_HEX_NUMBER      { $$ = DtDoConstant (DtParsertext);}

/* Possible TBD: Decimal number with prefix (0d1234) - Not supported this time */

```



```

| OP_EXP_DECIMAL_NUMBER
    { $$ = DtDoConstant (DtParsertext);}

;
%%

/*! [End] no source code translation !*/

/*
 * Local support functions, including parser entry point
 */
#define PR_FIRST_PARSE_OPCODE OP_EXP_EOF
#define PR_YYTNAME_START      3

/*****
 *
 * FUNCTION:  DtParsererror
 *
 * PARAMETERS: Message          - Parser-generated error message
 *
 * RETURN:    None
 *
 * DESCRIPTION: Handler for parser errors
 */
*****/

void
DtParsererror (
    char const      *Message)
{
    DtError (ASL_ERROR, ASL_MSG_SYNTAX,
        AslGbl_CurrentField, (char *) Message);
}

/*****
 *
 * FUNCTION:  DtGetOpName
 *
 * PARAMETERS: ParseOpcode      - Parser token (OP_EXP_*)
 *
 * RETURN:    Pointer to the opcode name
 *
 * DESCRIPTION: Get the ascii
                name of the parse opcode for debug output
 */
*****/

```



```

char *
DtGetOpName (
    UINT32      ParseOpcode)
{
#ifdef ASL_YYTNAME_START
    /*
     * First entries (PR_YYTNAME_START) in yytname are special reserved names.
     * Ignore first 6 characters of name (OP_EXP_)
     */
    return ((char *) yytname
        [(ParseOpcode - PR_FIRST_PARSE_OPCODE) + PR_YYTNAME_START] + 6);
#else
    return ("[Unknown parser generator]");
#endif
}

/*****
 *
 * FUNCTION:  DtEvaluateExpression
 *
 * PARAMETERS: ExprString      - Expression to be evaluated. Must be
 *                               terminated by either a newline or a NUL
 *                               string terminator
 *
 * RETURN:    64-bit value for the expression
 *
 * DESCRIPTION: Main entry point for the DT expression parser
 */
*****/

UINT64
DtEvaluateExpression
(
    char      *ExprString)
{
    DbgPrint (ASL_DEBUG_OUTPUT,
        "**** Input expression: %s (Base 16)\n", ExprString);

    /* Point lexer to the input string */

    if (DtInitLexer (ExprString))
    {
        DtError (ASL_ERROR, ASL_MSG_COMPILER_INTERNAL,
            AslGbl_CurrentField, "Could not initialize lexer");
        return (0);
    }

```



```

}

/* Parse/Evaluate the input string (value returned in DtParserResult) */

DtParserparse ();
DtTerminateLexer ();

DbgPrint (ASL_DEBUG_OUTPUT,
    "**** Parser returned value: %u (%8.8X%8.8X)\n",
    (UINT32) DtParserResult, ACPI_FORMAT_UINT64 (DtParserResult));

return (DtParserResult);
}

```

Found in path(s):

```

* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/dtparser.y

```

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NoEcho('

```

/*****

```

```

*

```

```

* Module Name: asltokens.y - Bison/Yacc token types

```

```

*

```

```

*****/

```

```

/*****

```

```

*

```

```

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- \*
- \*\*\*\*\*/
- )
- /\*
- \*
- \* Token types: These are returned by the lexer
- \*
- \* NOTE: This list MUST match the AslKeywordMapping table found
- \* in aslmap.c EXACTLY! Double check any changes!
- \*
- \*\*\*\*\*/
- /\*
- \* Most tokens are defined to return <i>, which is a UINT64.
- \*



\* These tokens return <s>, a pointer to the associated lexed string:

\*

\* PARSEOP\_NAMESEG

\* PARSEOP\_NAMESTRING

\* PARSEOP\_STRING\_LITERAL

\* PARSEOP\_STRUCTURE\_NAMESTRING

\*/

%token <i> PARSEOP\_ACCESSAS

%token <i> PARSEOP\_ACCESSATTRIB\_BLOCK

%token <i> PARSEOP\_ACCESSATTRIB\_BLOCK\_CALL

%token <i> PARSEOP\_ACCESSATTRIB\_BYTE

%token <i> PARSEOP\_ACCESSATTRIB\_BYTES

%token <i> PARSEOP\_ACCESSATTRIB\_QUICK

%token <i> PARSEOP\_ACCESSATTRIB\_RAW\_BYTES

%token <i> PARSEOP\_ACCESSATTRIB\_RAW\_PROCESS

%token <i> PARSEOP\_ACCESSATTRIB\_SND\_RCV

%token <i> PARSEOP\_ACCESSATTRIB\_WORD

%token <i> PARSEOP\_ACCESSATTRIB\_WORD\_CALL

%token <i> PARSEOP\_ACCESSTYPE\_ANY

%token <i> PARSEOP\_ACCESSTYPE\_BUF

%token <i> PARSEOP\_ACCESSTYPE\_BYTE

%token <i> PARSEOP\_ACCESSTYPE\_DWORD

%token <i> PARSEOP\_ACCESSTYPE\_QWORD

%token <i> PARSEOP\_ACCESSTYPE\_WORD

%token <i> PARSEOP\_ACQUIRE

%token <i> PARSEOP\_ADD

%token <i> PARSEOP\_ADDRESSINGMODE\_7BIT

%token <i> PARSEOP\_ADDRESSINGMODE\_10BIT

%token <i> PARSEOP\_ADDRESSTYPE ACPI

%token <i> PARSEOP\_ADDRESSTYPE\_MEMORY

%token <i> PARSEOP\_ADDRESSTYPE\_NVS

%token <i> PARSEOP\_ADDRESSTYPE\_RESERVED

%token <i> PARSEOP\_ALIAS

%token <i> PARSEOP\_AND

%token <i> PARSEOP\_ARG0

%token

<i> PARSEOP\_ARG1

%token <i> PARSEOP\_ARG2

%token <i> PARSEOP\_ARG3

%token <i> PARSEOP\_ARG4

%token <i> PARSEOP\_ARG5

%token <i> PARSEOP\_ARG6

%token <i> PARSEOP\_BANKFIELD

%token <i> PARSEOP\_BITSPERBYTE\_EIGHT

%token <i> PARSEOP\_BITSPERBYTE\_FIVE

%token <i> PARSEOP\_BITSPERBYTE\_NINE

%token <i> PARSEOP\_BITSPERBYTE\_SEVEN

%token <i> PARSEOP\_BITSPERBYTE\_SIX



%token <i> PARSEOP\_BREAK  
%token <i> PARSEOP\_BREAKPOINT  
%token <i> PARSEOP\_BUFFER  
%token <i> PARSEOP\_BUSMASTERTYPE\_MASTER  
%token <i> PARSEOP\_BUSMASTERTYPE\_NOTMASTER  
%token <i> PARSEOP\_BYTECONST  
%token <i> PARSEOP\_CASE  
%token <i> PARSEOP\_CLOCKPHASE\_FIRST  
%token <i> PARSEOP\_CLOCKPHASE\_SECOND  
%token <i> PARSEOP\_CLOCKPOLARITY\_HIGH  
%token <i> PARSEOP\_CLOCKPOLARITY\_LOW  
%token <i> PARSEOP\_CONCATENATE  
%token <i> PARSEOP\_CONCATENATERESTEMPLATE  
%token <i> PARSEOP\_CONDREFOF  
%token <i> PARSEOP\_CONNECTION  
%token <i> PARSEOP\_CONTINUE  
%token <i> PARSEOP\_COPYOBJECT  
%token <i> PARSEOP\_CREATEBITFIELD  
%token <i> PARSEOP\_CREATEBYTEFIELD  
%token <i> PARSEOP\_CREATEDWORDFIELD  
%token  
    <i> PARSEOP\_CREATEFIELD  
%token <i> PARSEOP\_CREATEQWORDFIELD  
%token <i> PARSEOP\_CREATEWORDFIELD  
%token <i> PARSEOP\_DATABUFFER  
%token <i> PARSEOP\_DATATABLEREGION  
%token <i> PARSEOP\_DEBUG  
%token <i> PARSEOP\_DECODETYPE\_POS  
%token <i> PARSEOP\_DECODETYPE\_SUB  
%token <i> PARSEOP\_DECREMENT  
%token <i> PARSEOP\_DEFAULT  
%token <i> PARSEOP\_DEFAULT\_ARG  
%token <i> PARSEOP\_DEFINITION\_BLOCK  
%token <i> PARSEOP\_DEREOF  
%token <i> PARSEOP\_DEVICE  
%token <i> PARSEOP\_DEVICEPOLARITY\_HIGH  
%token <i> PARSEOP\_DEVICEPOLARITY\_LOW  
%token <i> PARSEOP\_DIVIDE  
%token <i> PARSEOP\_DMA  
%token <i> PARSEOP\_DMATYPE\_A  
%token <i> PARSEOP\_DMATYPE\_COMPATIBILITY  
%token <i> PARSEOP\_DMATYPE\_B  
%token <i> PARSEOP\_DMATYPE\_F  
%token <i> PARSEOP\_DWORDCONST  
%token <i> PARSEOP\_DWORDIO  
%token <i> PARSEOP\_DWORDMEMORY  
%token <i> PARSEOP\_DWORDSPACE  
%token <i> PARSEOP\_EISAID



%token <i> PARSEOP\_ELSE  
 %token <i> PARSEOP\_ELSEIF  
 %token <i> PARSEOP\_ENDDEPENDENTFN  
 %token <i> PARSEOP\_ENDIAN\_BIG  
 %token <i> PARSEOP\_ENDIAN\_LITTLE  
 %token  
 <i> PARSEOP\_ENDTAG  
 %token <i> PARSEOP\_ERRORNODE  
 %token <i> PARSEOP\_EVENT  
 %token <i> PARSEOP\_EXTENDEDIO  
 %token <i> PARSEOP\_EXTENDEDMEMORY  
 %token <i> PARSEOP\_EXTENDEDSPACE  
 %token <i> PARSEOP\_EXTERNAL  
 %token <i> PARSEOP\_FATAL  
 %token <i> PARSEOP\_FIELD  
 %token <i> PARSEOP\_FINDSETLEFTBIT  
 %token <i> PARSEOP\_FINDSETRIGHTBIT  
 %token <i> PARSEOP\_FIXEDDMA  
 %token <i> PARSEOP\_FIXEDIO  
 %token <i> PARSEOP\_FLOWCONTROL\_HW  
 %token <i> PARSEOP\_FLOWCONTROL\_NONE  
 %token <i> PARSEOP\_FLOWCONTROL\_SW  
 %token <i> PARSEOP\_FROMBCD  
 %token <i> PARSEOP\_FUNCTION  
 %token <i> PARSEOP\_GPIO\_INT  
 %token <i> PARSEOP\_GPIO\_IO  
 %token <i> PARSEOP\_I2C\_SERIALBUS  
 %token <i> PARSEOP\_I2C\_SERIALBUS\_V2  
 %token <i> PARSEOP\_IF  
 %token <i> PARSEOP\_INCLUDE  
 %token <i> PARSEOP\_INCLUDE\_END  
 %token <i> PARSEOP\_INCREMENT  
 %token <i> PARSEOP\_INDEX  
 %token <i> PARSEOP\_INDEXFIELD  
 %token <i> PARSEOP\_INTEGER  
 %token <i> PARSEOP\_INTERRUPT  
 %token <i> PARSEOP\_INTLEVEL\_ACTIVEBOTH  
 %token <i> PARSEOP\_INTLEVEL\_ACTIVEHIGH  
 %token <i> PARSEOP\_INTLEVEL\_ACTIVELow  
 %token <i>  
 PARSEOP\_INTTYPE\_EDGE  
 %token <i> PARSEOP\_INTTYPE\_LEVEL  
 %token <i> PARSEOP\_IO  
 %token <i> PARSEOP\_IODECODETYPE\_10  
 %token <i> PARSEOP\_IODECODETYPE\_16  
 %token <i> PARSEOP\_IORESTRICT\_IN  
 %token <i> PARSEOP\_IORESTRICT\_NONE  
 %token <i> PARSEOP\_IORESTRICT\_OUT



%token <i> PARSEOP\_IORESTRICT\_PRESERVE  
 %token <i> PARSEOP\_IRQ  
 %token <i> PARSEOP\_IRQNOFLAGS  
 %token <i> PARSEOP\_LAND  
 %token <i> PARSEOP\_LEQUAL  
 %token <i> PARSEOP\_LGREATER  
 %token <i> PARSEOP\_LGREATEREQUAL  
 %token <i> PARSEOP\_LLESS  
 %token <i> PARSEOP\_LLESSEQUAL  
 %token <i> PARSEOP\_LNOT  
 %token <i> PARSEOP\_LNOTEQUAL  
 %token <i> PARSEOP\_LOAD  
 %token <i> PARSEOP\_LOADTABLE  
 %token <i> PARSEOP\_LOCAL0  
 %token <i> PARSEOP\_LOCAL1  
 %token <i> PARSEOP\_LOCAL2  
 %token <i> PARSEOP\_LOCAL3  
 %token <i> PARSEOP\_LOCAL4  
 %token <i> PARSEOP\_LOCAL5  
 %token <i> PARSEOP\_LOCAL6  
 %token <i> PARSEOP\_LOCAL7  
 %token <i> PARSEOP\_LOCKRULE\_LOCK  
 %token <i> PARSEOP\_LOCKRULE\_NOLOCK  
 %token <i> PARSEOP\_LOR  
 %token <i> PARSEOP\_MATCH  
 %token <i> PARSEOP\_MATCHTYPE\_MEQ  
 %token <i> PARSEOP\_MATCHTYPE\_MGE  
 %token  
 <i> PARSEOP\_MATCHTYPE\_MGT  
 %token <i> PARSEOP\_MATCHTYPE\_MLE  
 %token <i> PARSEOP\_MATCHTYPE\_MLT  
 %token <i> PARSEOP\_MATCHTYPE\_MTR  
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 %token <i> PARSEOP\_MEMTYPE\_NONCACHEABLE  
 %token <i> PARSEOP\_MEMTYPE\_PREFETCHABLE  
 %token <i> PARSEOP\_MEMTYPE\_WRITECOMBINING  
 %token <i> PARSEOP\_METHOD  
 %token <i> PARSEOP\_METHODCALL  
 %token <i> PARSEOP\_MID  
 %token <i> PARSEOP\_MINTYPE\_FIXED  
 %token <i> PARSEOP\_MINTYPE\_NOTFIXED  
 %token <i> PARSEOP\_MOD  
 %token <i> PARSEOP\_MULTIPLY



%token <i> PARSEOP\_MUTEX  
 %token <i> PARSEOP\_NAME  
 %token <s> PARSEOP\_NAMESEG  
 %token <s> PARSEOP\_NAMESTRING  
 %token <i> PARSEOP\_NAND  
 %token <i> PARSEOP\_NOOP  
 %token <i> PARSEOP\_NOR  
 %token <i> PARSEOP\_NOT  
 %token <i> PARSEOP\_NOTIFY  
 %token <i> PARSEOP\_OBJECTTYPE  
 %token <i> PARSEOP\_OBJECTTYPE\_BFF  
 %token <i> PARSEOP\_OBJECTTYPE\_BUF  
 %token <i> PARSEOP\_OBJECTTYPE\_DDB  
 %token  
 <i> PARSEOP\_OBJECTTYPE\_DEV  
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 %token <i> PARSEOP\_OBJECTTYPE\_PRO  
 %token <i> PARSEOP\_OBJECTTYPE\_STR  
 %token <i> PARSEOP\_OBJECTTYPE\_THZ  
 %token <i> PARSEOP\_OBJECTTYPE\_UNK  
 %token <i> PARSEOP\_OFFSET  
 %token <i> PARSEOP\_ONE  
 %token <i> PARSEOP\_ONES  
 %token <i> PARSEOP\_OPERATIONREGION  
 %token <i> PARSEOP\_OR  
 %token <i> PARSEOP\_PACKAGE  
 %token <i> PARSEOP\_PACKAGE\_LENGTH  
 %token <i> PARSEOP\_PARITYTYPE\_EVEN  
 %token <i> PARSEOP\_PARITYTYPE\_MARK  
 %token <i> PARSEOP\_PARITYTYPE\_NONE  
 %token <i> PARSEOP\_PARITYTYPE\_ODD  
 %token <i> PARSEOP\_PARITYTYPE\_SPACE  
 %token <i> PARSEOP\_PINCONFIG  
 %token <i> PARSEOP\_PINFUNCTION  
 %token <i> PARSEOP\_PINGROUP  
 %token <i> PARSEOP\_PINGROUPCONFIG  
 %token <i> PARSEOP\_PINGROUPFUNCTION  
 %token <i> PARSEOP\_PIN\_NOPULL  
 %token  
 <i> PARSEOP\_PIN\_PULLDEFAULT  
 %token <i> PARSEOP\_PIN\_PULLDOWN



%token <i> PARSEOP\_PIN\_PULLUP  
 %token <i> PARSEOP\_POWERRESOURCE  
 %token <i> PARSEOP\_PROCESSOR  
 %token <i> PARSEOP\_QWORDCONST  
 %token <i> PARSEOP\_QWORDIO  
 %token <i> PARSEOP\_QWORDMEMORY  
 %token <i> PARSEOP\_QWORDSPACE  
 %token <i> PARSEOP\_RANGETYPE\_ENTIRE  
 %token <i> PARSEOP\_RANGETYPE\_ISAONLY  
 %token <i> PARSEOP\_RANGETYPE\_NONISAONLY  
 %token <i> PARSEOP\_RAW\_DATA  
 %token <i> PARSEOP\_READWRITETYPE\_BOTH  
 %token <i> PARSEOP\_READWRITETYPE\_READONLY  
 %token <i> PARSEOP\_REFOF  
 %token <i> PARSEOP\_REGIONSPACE\_CMOS  
 %token <i> PARSEOP\_REGIONSPACE\_EC  
 %token <i> PARSEOP\_REGIONSPACE\_FFIXEDHW  
 %token <i> PARSEOP\_REGIONSPACE\_GPIO  
 %token <i> PARSEOP\_REGIONSPACE\_GSBUS  
 %token <i> PARSEOP\_REGIONSPACE\_IO  
 %token <i> PARSEOP\_REGIONSPACE\_IPMI  
 %token <i> PARSEOP\_REGIONSPACE\_MEM  
 %token <i> PARSEOP\_REGIONSPACE\_PCC  
 %token <i> PARSEOP\_REGIONSPACE\_PCI  
 %token <i> PARSEOP\_REGIONSPACE\_PCIBAR  
 %token <i> PARSEOP\_REGIONSPACE\_PRM  
 %token <i> PARSEOP\_REGIONSPACE\_SMBUS  
 %token  
 <i> PARSEOP\_REGISTER  
 %token <i> PARSEOP\_RELEASE  
 %token <i> PARSEOP\_RESERVED\_BYTES  
 %token <i> PARSEOP\_RESET  
 %token <i> PARSEOP\_RESOURCETEMPLATE  
 %token <i> PARSEOP\_RESOURCETYPE\_CONSUMER  
 %token <i> PARSEOP\_RESOURCETYPE\_PRODUCER  
 %token <i> PARSEOP\_RETURN  
 %token <i> PARSEOP\_REVISION  
 %token <i> PARSEOP\_SCOPE  
 %token <i> PARSEOP\_SERIALIZERULE\_NOTSERIAL  
 %token <i> PARSEOP\_SERIALIZERULE\_SERIAL  
 %token <i> PARSEOP\_SHARETYPE\_EXCLUSIVE  
 %token <i> PARSEOP\_SHARETYPE\_EXCLUSIVEWAKE  
 %token <i> PARSEOP\_SHARETYPE\_SHARED  
 %token <i> PARSEOP\_SHARETYPE\_SHAREDWAKE  
 %token <i> PARSEOP\_SHIFTLLEFT  
 %token <i> PARSEOP\_SHIFTRIGHT  
 %token <i> PARSEOP\_SIGNAL  
 %token <i> PARSEOP\_SIZEOF



%token <i> PARSEOP\_SLAVEMODE\_CONTROLLERINIT  
 %token <i> PARSEOP\_SLAVEMODE\_DEVICEINIT  
 %token <i> PARSEOP\_SLEEP  
 %token <i> PARSEOP\_SPI\_SERIALBUS  
 %token <i> PARSEOP\_SPI\_SERIALBUS\_V2  
 %token <i> PARSEOP\_STALL  
 %token <i> PARSEOP\_STARTDEPENDENTFN  
 %token <i> PARSEOP\_STARTDEPENDENTFN\_NOPRI  
 %token <i> PARSEOP\_STOPBITS\_ONE  
 %token <i> PARSEOP\_STOPBITS\_ONEPLUSHALF  
 %token  
 <i> PARSEOP\_STOPBITS\_TWO  
 %token <i> PARSEOP\_STOPBITS\_ZERO  
 %token <i> PARSEOP\_STORE  
 %token <s> PARSEOP\_STRING\_LITERAL  
 %token <i> PARSEOP\_SUBTRACT  
 %token <i> PARSEOP\_SWITCH  
 %token <i> PARSEOP\_THERMALZONE  
 %token <i> PARSEOP\_TIMER  
 %token <i> PARSEOP\_TOBCD  
 %token <i> PARSEOP\_TOBUFFER  
 %token <i> PARSEOP\_TODECIMALSTRING  
 %token <i> PARSEOP\_TOHEXSTRING  
 %token <i> PARSEOP\_TOINTEGER  
 %token <i> PARSEOP\_TOSTRING  
 %token <i> PARSEOP\_TOUUID  
 %token <i> PARSEOP\_TRANSLATIONTYPE\_DENSE  
 %token <i> PARSEOP\_TRANSLATIONTYPE\_SPARSE  
 %token <i> PARSEOP\_TYPE\_STATIC  
 %token <i> PARSEOP\_TYPE\_TRANSLATION  
 %token <i> PARSEOP\_UART\_SERIALBUS  
 %token <i> PARSEOP\_UART\_SERIALBUS\_V2  
 %token <i> PARSEOP\_UNICODE  
 %token <i> PARSEOP\_UNLOAD  
 %token <i> PARSEOP\_UPDATERULE\_ONES  
 %token <i> PARSEOP\_UPDATERULE\_PRESERVE  
 %token <i> PARSEOP\_UPDATERULE\_ZEROS  
 %token <i> PARSEOP\_VAR\_PACKAGE  
 %token <i> PARSEOP\_VENDORLONG  
 %token <i> PARSEOP\_VENDORSHORT  
 %token <i> PARSEOP\_WAIT  
 %token <i> PARSEOP\_WHILE  
 %token <i> PARSEOP\_WIREMODE\_FOUR  
 %token  
 <i> PARSEOP\_WIREMODE\_THREE  
 %token <i> PARSEOP\_WORDBUSNUMBER  
 %token <i> PARSEOP\_WORDCONST  
 %token <i> PARSEOP\_WORDIO



%token <i> PARSEOP\_WORDSAPCE  
%token <i> PARSEOP\_XFERSIZE\_8  
%token <i> PARSEOP\_XFERSIZE\_16  
%token <i> PARSEOP\_XFERSIZE\_32  
%token <i> PARSEOP\_XFERSIZE\_64  
%token <i> PARSEOP\_XFERSIZE\_128  
%token <i> PARSEOP\_XFERSIZE\_256  
%token <i> PARSEOP\_XFERTYPE\_8  
%token <i> PARSEOP\_XFERTYPE\_8\_16  
%token <i> PARSEOP\_XFERTYPE\_16  
%token <i> PARSEOP\_XOR  
%token <i> PARSEOP\_ZERO

/\* ToPld macro \*/

%token <i> PARSEOP\_TOPLD  
%token <i> PARSEOP\_PLD\_REVISION  
%token <i> PARSEOP\_PLD\_IGNORECOLOR  
%token <i> PARSEOP\_PLD\_RED  
%token <i> PARSEOP\_PLD\_GREEN  
%token <i> PARSEOP\_PLD\_BLUE  
%token <i> PARSEOP\_PLD\_WIDTH  
%token <i> PARSEOP\_PLD\_HEIGHT  
%token <i> PARSEOP\_PLD\_USERVISIBLE  
%token <i> PARSEOP\_PLD\_DOCK  
%token <i> PARSEOP\_PLD\_LID  
%token <i> PARSEOP\_PLD\_PANEL  
%token <i> PARSEOP\_PLD\_VERTICALPOSITION  
%token <i> PARSEOP\_PLD\_HORIZONTALPOSITION  
%token <i> PARSEOP\_PLD\_SHAPE  
%token <i> PARSEOP\_PLD\_GROUPORIENTATION  
%token  
    <i> PARSEOP\_PLD\_GROUPTOKEN  
%token <i> PARSEOP\_PLD\_GROUPPOSITION  
%token <i> PARSEOP\_PLD\_BAY  
%token <i> PARSEOP\_PLD\_EJECTABLE  
%token <i> PARSEOP\_PLD\_EJECTREQUIRED  
%token <i> PARSEOP\_PLD\_CABINETNUMBER  
%token <i> PARSEOP\_PLD\_CARDCAGENUMBER  
%token <i> PARSEOP\_PLD\_REFERENCE  
%token <i> PARSEOP\_PLD\_ROTATION  
%token <i> PARSEOP\_PLD\_ORDER  
%token <i> PARSEOP\_PLD\_RESERVED  
%token <i> PARSEOP\_PLD\_VERTICALOFFSET  
%token <i> PARSEOP\_PLD\_HORIZONTALOFFSET

/\*

\* C-style expression parser. These must appear after all of the



\* standard ASL operators and keywords.  
\*  
\* Note: The order of these tokens implements the precedence rules  
\* (low precedence to high). See aslrules.y for an exhaustive list.  
\*/

%right <i> PARSEOP\_EXP\_EQUALS

PARSEOP\_EXP\_ADD\_EQ

PARSEOP\_EXP\_SUB\_EQ

PARSEOP\_EXP\_MUL\_EQ

PARSEOP\_EXP\_DIV\_EQ

PARSEOP\_EXP\_MOD\_EQ

PARSEOP\_EXP\_SHL\_EQ

PARSEOP\_EXP\_SHR\_EQ

PARSEOP\_EXP\_AND\_EQ

PARSEOP\_EXP\_XOR\_EQ

PARSEOP\_EXP\_OR\_EQ

%left <i> PARSEOP\_EXP\_LOGICAL\_OR

%left <i> PARSEOP\_EXP\_LOGICAL\_AND

%left <i> PARSEOP\_EXP\_OR

%left <i> PARSEOP\_EXP\_XOR

%left <i> PARSEOP\_EXP\_AND

%left <i> PARSEOP\_EXP\_EQUAL

PARSEOP\_EXP\_NOT\_EQUAL

%left <i> PARSEOP\_EXP\_GREATER

PARSEOP\_EXP\_LESS

PARSEOP\_EXP\_GREATER\_EQUAL

PARSEOP\_EXP\_LESS\_EQUAL

%left <i> PARSEOP\_EXP\_SHIFT\_RIGHT

PARSEOP\_EXP\_SHIFT\_LEFT

%left <i> PARSEOP\_EXP\_ADD

PARSEOP\_EXP\_SUBTRACT

%left <i> PARSEOP\_EXP\_MULTIPLY

PARSEOP\_EXP\_DIVIDE

PARSEOP\_EXP\_MODULO

%right <i> PARSEOP\_EXP\_NOT

PARSEOP\_EXP\_LOGICAL\_NOT

%left <i> PARSEOP\_EXP\_INCREMENT

PARSEOP\_EXP\_DECREMENT

%left <i> PARSEOP\_OPEN\_PAREN

PARSEOP\_CLOSE\_PAREN

/\* Brackets for Index() support \*/

%left <i> PARSEOP\_EXP\_INDEX\_LEFT



%right <i> PARSEOP\_EXP\_INDEX\_RIGHT

/\* Macros \*/

%token <i> PARSEOP\_PRINTF

%token <i> PARSEOP\_FPRINTF

%token <i> PARSEOP\_FOR

/\* Structures

\*/

%token <i> PARSEOP\_STRUCTURE

%token <s> PARSEOP\_STRUCTURE\_NAMESTRING

%token <i> PARSEOP\_STRUCTURE\_TAG

%token <i> PARSEOP\_STRUCTURE\_ELEMENT

%token <i> PARSEOP\_STRUCTURE\_INSTANCE

%token <i> PARSEOP\_STRUCTURE\_REFERENCE

%token <i> PARSEOP\_STRUCTURE\_POINTER

/\* Top level \*/

%token <i> PARSEOP\_ASL\_CODE

\*\*\*\*\*

\*

\* Tokens below are not in the aslmap.c file

\*

\*\*\*\*\*/

/\* Tokens below this are not in the aslmap.c file \*/

/\* Specific parentheses tokens are not used at this time \*/

/\* PARSEOP\_EXP\_PAREN\_OPEN \*/

/\* PARSEOP\_EXP\_PAREN\_CLOSE \*/

/\* ASL+ variable creation \*/

%token <i> PARSEOP\_INTEGER\_TYPE

%token <i> PARSEOP\_STRING\_TYPE

%token <i> PARSEOP\_BUFFER\_TYPE

%token <i> PARSEOP\_PACKAGE\_TYPE

%token <i> PARSEOP\_REFERENCE\_TYPE

/\*

\* Special functions. These should probably stay at the end of this



\* table.  
\*/  
%token  
<i> PARSEOP\_\_DATE\_\_  
%token <i> PARSEOP\_\_FILE\_\_  
%token <i> PARSEOP\_\_LINE\_\_  
%token <i> PARSEOP\_\_PATH\_\_  
%token <i> PARSEOP\_\_METHOD\_\_

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/asltokens.y

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NoEcho('

/\*\*\*\*\*

\*

\* Module Name: aslsupport.y - Bison/Yacc C support functions

\*

\*\*\*\*\*/

/\*\*\*\*\*

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*
*****/

')

/*****
*
* Local support functions
*
*****/

/*! [Begin] no source code translation */
int
AslCompilerwrap(void)
{
    return (1);
}
/*! [End] no source code translation !*/

void *

```



```

AslLocalAllocate (
    unsigned int    Size)
{
    void            *Mem;

    DbgPrint (ASL_PARSE_OUTPUT,
        "\nAslLocalAllocate: Expanding Stack to %u\n\n", Size);

    Mem = ACPI_ALLOCATE_ZEROED (Size);
    if (!Mem)

    {
        AslCommonError (ASL_ERROR, ASL_MSG_MEMORY_ALLOCATION,
            AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
            AslGbl_InputByteCount, AslGbl_CurrentColumn,
            AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
        exit (1);
    }

    return (Mem);
}

ACPI_PARSE_OBJECT *
AslDoError (
    void)
{
    return (TrCreateLeafOp (PARSEOP_ERRORNODE));
}

/*****
*
* FUNCTION:  UtGetOpName
*
* PARAMETERS: ParseOpcode      - Parser keyword ID
*
* RETURN:    Pointer to the opcode name
*
* DESCRIPTION: Get the ascii name of the parse opcode
*
*****/

char *
UtGetOpName (
    UINT32        ParseOpcode)
{

```



```

#ifdef ASL_YYTNAME_START
/*
 * First entries (ASL_YYTNAME_START) in yytname are special reserved names.
 * Ignore first 8 characters of the name
 */
return ((char *) yytname
        [(ParseOpcode - ASL_FIRST_PARSE_OPCODE) + ASL_YYTNAME_START] + 8);
#else
return ("[Unknown parser generator]");
#endif
}

```

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslsupport.y

No license file was found, but licenses were detected in source scan.

```

%{
/*****
*
* Module Name: dtparser.l - Flex input file for table compiler lexer
*
*****/

/*****
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\*\*\*\*\*/

```
#include "aslcompiler.h"
```

```
#include "dtparser.y.h"
```

```
#define YY_NO_INPUT    /* No file input, we use strings only */
```

```
#define _COMPONENT      ACPI_COMPILER
```

```
    ACPI_MODULE_NAME    ("dtscanner")
```

```
% }
```

```
%option noyywrap
```

```
%option nounput
```

```
Number      [0-9a-fA-F]+
```

```
HexNumber    0[xX][0-9a-fA-F]+
```

```
DecimalNumber 0[dD][0-9]+
```

```
LabelRef     ${a-zA-Z}[0-9a-zA-Z]*
```



WhiteSpace [ \t\v\r]+

NewLine [ \n]

%%

\( return (OP\_EXP\_PAREN\_OPEN);

\) return (OP\_EXP\_PAREN\_CLOSE);

\~ return (OP\_EXP\_ONES\_COMPLIMENT);

!

return (OP\_EXP\_LOGICAL\_NOT);

\\* return (OP\_EXP\_MULTIPLY);

\/ return (OP\_EXP\_DIVIDE);

\% return (OP\_EXP\_MODULO);

\+ return (OP\_EXP\_ADD);

\- return (OP\_EXP\_SUBTRACT);

>> return (OP\_EXP\_SHIFT\_RIGHT);

<< return (OP\_EXP\_SHIFT\_LEFT);

< return (OP\_EXP\_LESS);

> return (OP\_EXP\_GREATER);

<= return (OP\_EXP\_LESS\_EQUAL);

>= return (OP\_EXP\_GREATER\_EQUAL);

= return (OP\_EXP\_EQUAL);

!= return (OP\_EXP\_NOT\_EQUAL);

& return (OP\_EXP\_AND);

^ return (OP\_EXP\_XOR);

\| return (OP\_EXP\_OR);

&& return (OP\_EXP\_LOGICAL\_AND);

|| return (OP\_EXP\_LOGICAL\_OR);

<<EOF>> return (OP\_EXP\_EOF); /\* null end-of-string \*/

{LabelRef} return (OP\_EXP\_LABEL);

{Number} return (OP\_EXP\_NUMBER);

{HexNumber} return (OP\_EXP\_HEX\_NUMBER);

{NewLine} return (OP\_EXP\_NEW\_LINE);

{WhiteSpace}

/\* Ignore \*/

. return (OP\_EXP\_EOF);

%%

/\*

\* Local support functions

\*/

static YY\_BUFFER\_STATE LexBuffer;

/\*

\*



```

* FUNCTION:  DtInitLexer, DtTerminateLexer
*
* PARAMETERS: String          - Input string to be parsed
*
* RETURN:    None
*
* DESCRIPTION: Initialization and termination routines for lexer. Lexer needs
*              a buffer to handle strings instead of a file.
*
*****/

```

```

int
DtInitLexer (
    char          *String)
{
    LexBuffer = yy_scan_string (String);
    return (LexBuffer == NULL);
}

```

```

void
DtTerminateLexer (
    void)
{
    yy_delete_buffer (LexBuffer);
}

```

Found in path(s):  
 \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/dtparser.l  
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```

/*****

```

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*
*****
/*
* SLIC - Software Licensing Description Table. This table contains the standard
* ACPI header followed by proprietary data structures
*
*****
/* Single subtable, a proprietary format, so treat it as a buffer */

```

Found in path(s):

```

* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-

```



20210105/source/common/dmtbinfo3.c

No license file was found, but licenses were detected in source scan.

NoEcho('

/\*  
\*\*\*\*\*  
\*/

\*

\* Module Name: aslprimaries.y - Rules for primary ASL operators

\* - Keep this file synched with the

\* CvParseOpBlockType function in cvcompiler.c

\*

\*\*\*\*\*  
/

/\*  
\*\*\*\*\*  
\*/

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AccessAsTerm

: PARSEOP\_ACCESSAS

PARSEOP\_OPEN\_PAREN

AccessTypeKeyword

OptionalAccessAttribTerm

PARSEOP\_CLOSE\_PAREN { \$\$ = TrCreateOp (PARSEOP\_ACCESSAS,2,\$3,\$4); }

| PARSEOP\_ACCESSAS

PARSEOP\_OPEN\_PAREN

error PARSEOP\_CLOSE\_PAREN { \$\$ = AslDoError(); yyclearin; }

;

AcquireTerm

: PARSEOP\_ACQUIRE

PARSEOP\_OPEN\_PAREN { \$<n>\$ = TrCreateLeafOp(PARSEOP\_ACQUIRE); }

SuperName

',' WordConstExpr

PARSEOP\_CLOSE\_PAREN { \$\$ = TrLinkOpChildren (\$<n>3,2,\$4,\$6); }

| PARSEOP\_ACQUIRE



```

PARSEOP_OPEN_PAREN
error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

AddTerm
: PARSEOP_ADD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_ADD);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_ADD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

AliasTerm
: PARSEOP_ALIAS
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_ALIAS);}
  NameString
  NameStringItem
  PARSEOP_CLOSE_PAREN     {$$
= TrLinkOpChildren ($<n>3,2,$4,
                      TrSetOpFlags ($5, OP_IS_NAME_DECLARATION));}
| PARSEOP_ALIAS
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

AndTerm
: PARSEOP_AND
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_AND);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_AND
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

ArgTerm
: PARSEOP_ARG0            {$$ = TrCreateLeafOp (PARSEOP_ARG0);}
| PARSEOP_ARG1            {$$ = TrCreateLeafOp (PARSEOP_ARG1);}
| PARSEOP_ARG2            {$$ = TrCreateLeafOp (PARSEOP_ARG2);}
| PARSEOP_ARG3            {$$ = TrCreateLeafOp (PARSEOP_ARG3);}
| PARSEOP_ARG4            {$$ = TrCreateLeafOp (PARSEOP_ARG4);}
| PARSEOP_ARG5

```



```

    {$$ = TrCreateLeafOp (PARSEOP_ARG5);}
| PARSEOP_ARG6          {$$ = TrCreateLeafOp (PARSEOP_ARG6);}
;

BankFieldTerm
: PARSEOP_BANKFIELD
  PARSEOP_OPEN_PAREN    {$<n>$ = TrCreateLeafOp (PARSEOP_BANKFIELD);}
  NameString
  NameStringItem
  TermArgItem
  OptionalAccessTypeKeyword
  OptionalLockRuleKeyword
  OptionalUpdateRuleKeyword
  PARSEOP_CLOSE_PAREN '{'
    FieldUnitList '}'    {$$ = TrLinkOpChildren ($<n>3,7,
                                $4,$5,$6,$7,$8,$9,$12);}
| PARSEOP_BANKFIELD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN
  '{' error '}'          {$$ = AslDoError(); yyclearin;}
;

BreakTerm
: PARSEOP_BREAK          {$$ = TrCreateOp (PARSEOP_BREAK, 0);}
;

BreakPointTerm
: PARSEOP_BREAKPOINT     {$$ = TrCreateOp (PARSEOP_BREAKPOINT, 0);}
;

BufferTerm
: PARSEOP_BUFFER          {$<n>$ = TrCreateLeafOp (PARSEOP_BUFFER);}
COMMENT_CAPTURE_OFF; }
  OptionalDataCount
  '{' BufferTermData '}'  {$$ = TrLinkOpChildren ($<n>2,2,$3,$5); COMMENT_CAPTURE_ON;}
;

BufferTermData
: ByteList                {}
| StringData              {}
;

CaseTerm
: PARSEOP_CASE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_CASE);}
  DataObject
  PARSEOP_CLOSE_PAREN '{'
    TermList '}'          {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}

```



```
| PARSEOP_CASE
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### ConcatTerm

```
: PARSEOP_CONCATENATE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_CONCATENATE);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_CONCATENATE
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### ConcatResTerm

```
: PARSEOP_CONCATENATERESTEMPLATE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (
                                PARSEOP_CONCATENATERESTEMPLATE);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_CONCATENATERESTEMPLATE
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### CondRefOfTerm

```
: PARSEOP_CONDREFOF
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_CONDREFOF);}
  CondRefOfSource
  Target
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_CONDREFOF
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### ConnectionTerm

```
: PARSEOP_CONNECTION
  PARSEOP_OPEN_PAREN
  NameString
  PARSEOP_CLOSE_PAREN      {$$ = TrCreateOp (PARSEOP_CONNECTION,1,$3);}
| PARSEOP_CONNECTION
```



```

    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_CONNECTION);}
ResourceMacroTerm
    PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3, 1,
                                TrLinkOpChildren (
                                    TrCreateLeafOp (PARSEOP_RESOURCETEMPLATE), 3,
                                    TrCreateLeafOp (PARSEOP_DEFAULT_ARG),
                                    TrCreateLeafOp (PARSEOP_DEFAULT_ARG),
                                    $4));}
| PARSEOP_CONNECTION
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

ContinueTerm
: PARSEOP_CONTINUE          {$$ = TrCreateOp (PARSEOP_CONTINUE, 0);}
;

CopyObjectTerm
: PARSEOP_COPYOBJECT
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_COPYOBJECT);}
    TermArg
    ',' SimpleName
    PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren
($<n>3,2,$4,
                                TrSetOpFlags ($6, OP_IS_TARGET));}
| PARSEOP_COPYOBJECT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

CreateBitFieldTerm
: PARSEOP_CREATEBITFIELD
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEBITFIELD);}
    TermArg
    TermArgItem
    NameStringItem
    PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,
                                TrSetOpFlags ($6, OP_IS_NAME_DECLARATION));}
| PARSEOP_CREATEBITFIELD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

CreateByteFieldTerm
: PARSEOP_CREATEBYTEFIELD
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEBYTEFIELD);}
    TermArg
    TermArgItem

```



```

NameStringItem
PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,

    TrSetOpFlags ($6, OP_IS_NAME_DECLARATION));}
| PARSEOP_CREATEBYTEFIELD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

CreateDWordFieldTerm
: PARSEOP_CREATEDWORDFIELD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEDWORDFIELD);}
  TermArg
  TermArgItem
  NameStringItem
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,
    TrSetOpFlags ($6, OP_IS_NAME_DECLARATION));}
| PARSEOP_CREATEDWORDFIELD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

CreateFieldTerm
: PARSEOP_CREATEFIELD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEFIELD);}
  TermArg
  TermArgItem
  TermArgItem
  NameStringItem
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,4,$4,$5,$6,

    TrSetOpFlags ($7, OP_IS_NAME_DECLARATION));}
| PARSEOP_CREATEFIELD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

CreateQWordFieldTerm
: PARSEOP_CREATEQWORDFIELD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEQWORDFIELD);}
  TermArg
  TermArgItem
  NameStringItem
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,
    TrSetOpFlags ($6, OP_IS_NAME_DECLARATION));}
| PARSEOP_CREATEQWORDFIELD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}

```



;

CreateWordFieldTerm

: PARSEOP\_CREATEWORDFIELD

PARSEOP\_OPEN\_PAREN      {<n>\$ = TrCreateLeafOp (PARSEOP\_CREATEWORDFIELD);}

TermArg

TermArgItem

NameStringItem

PARSEOP\_CLOSE\_PAREN      {\$\$ = TrLinkOpChildren (<n>3,3,\$4,\$5,  
TrSetOpFlags (\$6,

OP\_IS\_NAME\_DECLARATION));}

| PARSEOP\_CREATEWORDFIELD

PARSEOP\_OPEN\_PAREN

error PARSEOP\_CLOSE\_PAREN    {\$\$ = AslDoError(); yyclearin;}

;

DataRegionTerm

: PARSEOP\_DATATABLEREGION

PARSEOP\_OPEN\_PAREN      {<n>\$ = TrCreateLeafOp (PARSEOP\_DATATABLEREGION);}

NameString

TermArgItem

TermArgItem

TermArgItem

PARSEOP\_CLOSE\_PAREN      {\$\$ = TrLinkOpChildren (<n>3,4,  
TrSetOpFlags (\$4, OP\_IS\_NAME\_DECLARATION),\$5,\$6,\$7);}

| PARSEOP\_DATATABLEREGION

PARSEOP\_OPEN\_PAREN

error PARSEOP\_CLOSE\_PAREN    {\$\$ = AslDoError(); yyclearin;}

;

DebugTerm

: PARSEOP\_DEBUG            {\$\$ = TrCreateLeafOp (PARSEOP\_DEBUG);}

;

DecTerm

: PARSEOP\_DECREMENT

PARSEOP\_OPEN\_PAREN      {<n>\$ = TrCreateLeafOp (PARSEOP\_DECREMENT);}

SuperName

PARSEOP\_CLOSE\_PAREN      {\$\$ = TrLinkOpChildren (<n>3,1,\$4);}

| PARSEOP\_DECREMENT

PARSEOP\_OPEN\_PAREN

error PARSEOP\_CLOSE\_PAREN    {\$\$ = AslDoError(); yyclearin;}

;

DefaultTerm

: PARSEOP\_DEFAULT '{'      {<n>\$ = TrCreateLeafOp (PARSEOP\_DEFAULT);}

TermList '}'            {\$\$ = TrLinkOpChildren (<n>3,1,\$4);}

| PARSEOP\_DEFAULT '{'



```

error '}'          {$$ = AslDoError(); yyclearin;}
;

```

#### DerefOfTerm

```

: PARSEOP_DEREOF
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_DEREOF);}
  DerefOfSource
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_DEREOF
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

```

#### DeviceTerm

```

: PARSEOP_DEVICE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_DEVICE);}
  NameString
  PARSEOP_CLOSE_PAREN '{'
    TermList '}'          {$$ = TrLinkOpChildren ($<n>3,2,
                                     TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$7);}
| PARSEOP_DEVICE
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

```

#### DivideTerm

```

: PARSEOP_DIVIDE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_DIVIDE);}
  TermArg
  TermArgItem
  Target
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,4,$4,$5,$6,$7);}
| PARSEOP_DIVIDE
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

```

#### EISAIIDTerm

```

: PARSEOP_EISAID
  PARSEOP_OPEN_PAREN
  StringLiteral
  PARSEOP_CLOSE_PAREN     {$$ = TrSetOpIntegerValue (PARSEOP_EISAID, $3);}
| PARSEOP_EISAID
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

```



ElseIfTerm

```
: IfTerm ElseTerm      {$$ = TrLinkPeerOp ($1,$2);}
;
```

ElseTerm

```
:          {$$ = NULL;}
| PARSEOP_ELSE '{'
  TermList      {$<n>$
= TrCreateLeafOp (PARSEOP_ELSE);}
  '}'          {$$ = TrLinkOpChildren ($<n>4,1,$3);}

| PARSEOP_ELSE '{'
  error '}'      {$$ = AslDoError(); yyclearin;}

| PARSEOP_ELSE
  error          {$$ = AslDoError(); yyclearin;}

| PARSEOP_ELSEIF
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_ELSE);}
  TermArg                  {$<n>$ = TrCreateLeafOp (PARSEOP_IF);}
  PARSEOP_CLOSE_PAREN '{'
    TermList '}'          {TrLinkOpChildren ($<n>5,2,$4,$8);}
    ElseTerm              {TrLinkPeerOp ($<n>5,$11);}
                          {$$ = TrLinkOpChildren ($<n>3,1,$<n>5);}

| PARSEOP_ELSEIF
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}

| PARSEOP_ELSEIF
  error          {$$ = AslDoError(); yyclearin;}
;
```

EventTerm

```
: PARSEOP_EVENT
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp
(PARSEOP_EVENT);}
  NameString
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,1,
TrSetOpFlags ($4, OP_IS_NAME_DECLARATION));}
| PARSEOP_EVENT
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

ExternalTerm

```
: PARSEOP_EXTERNAL
  PARSEOP_OPEN_PAREN
```



```

NameString
OptionalObjectTypeKeyword
OptionalParameterTypePackage
OptionalParameterTypesPackage
PARSEOP_CLOSE_PAREN    {$$ = TrCreateOp (PARSEOP_EXTERNAL,4,$3,$4,$5,$6);}
| PARSEOP_EXTERNAL
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### FatalTerm

```

: PARSEOP_FATAL
  PARSEOP_OPEN_PAREN    {$<n>$ = TrCreateLeafOp (PARSEOP_FATAL);}
  ByteConstExpr
  ',' DWordConstExpr
  TermArgItem
  PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,3,$4,$6,$7);}
| PARSEOP_FATAL
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### FieldTerm

```

: PARSEOP_FIELD
  PARSEOP_OPEN_PAREN    {$<n>$ = TrCreateLeafOp (PARSEOP_FIELD);}
  NameString
  OptionalAccessTypeKeyword
  OptionalLockRuleKeyword
  OptionalUpdateRuleKeyword
  PARSEOP_CLOSE_PAREN  '{'
    FieldUnitList '}'    {$$ = TrLinkOpChildren ($<n>3,5,$4,$5,$6,$7,$10);}
| PARSEOP_FIELD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN
  '{' error '}'          {$$ = AslDoError(); yyclearin;}
;

```

#### FindSetLeftBitTerm

```

: PARSEOP_FINDSETLEFTBIT
  PARSEOP_OPEN_PAREN    {$<n>$ = TrCreateLeafOp (PARSEOP_FINDSETLEFTBIT);}
  TermArg
  Target
  PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_FINDSETLEFTBIT
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```



## FindSetRightBitTerm

```
: PARSEOP_FINDSETRIGHTBIT
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_FINDSETRIGHTBIT);}
  TermArg
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_FINDSETRIGHTBIT
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

/\* Convert a For() loop to a While() loop \*/

## ForTerm

```
: PARSEOP_FOR
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_WHILE);}
  OptionalTermArg ' '      {}
  OptionalPredicate ' '
  OptionalTermArg          {$<n>$ = TrLinkPeerOp ($4,$<n>3);
                           TrSetOpParent ($9,$<n>3);}          /* New parent is WHILE */
  PARSEOP_CLOSE_PAREN
  {' TermList ' }          {$<n>$ = TrLinkOpChildren ($<n>3,2,$7,$13);}
                           {$<n>$ = TrLinkPeerOp ($13,$9);
                           $$ = $<n>10;}
;
```

## OptionalPredicate

```
:          {$$ = TrCreateValuedLeafOp (PARSEOP_INTEGER, 1);}
| TermArg  {$$ = $1;}
;
```

## FprintfTerm

```
: PARSEOP_FPRINTF
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_FPRINTF);}
  TermArg ' '
  StringLiteral
  PrintfArgList
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$6,$7);}
| PARSEOP_FPRINTF
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

## FromBCDTerm

```
: PARSEOP_FROMBCD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_FROMBCD);}
  TermArg
  Target
```



```

    PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_FROMBCD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

FunctionTerm
: PARSEOP_FUNCTION
    PARSEOP_OPEN_PAREN      {COMMENT_CAPTURE_OFF; $<n>$ = TrCreateLeafOp
(PARSEOP_METHOD); }
    NameString
    OptionalParameterTypePackage
    OptionalParameterTypesPackage
    PARSEOP_CLOSE_PAREN '{'  {COMMENT_CAPTURE_ON; }
        TermList '}'          {$$ = TrLinkOpChildren ($<n>3,7,
                                TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                                TrCreateLeafOp (PARSEOP_DEFAULT_ARG),
                                TrCreateLeafOp (PARSEOP_SERIALIZERULE_NOTSERIAL),
                                TrCreateValuedLeafOp (PARSEOP_BYTECONST, 0),$5,$6,$10);}
| PARSEOP_FUNCTION
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

IfTerm
: PARSEOP_IF
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_IF);}
    TermArg
    PARSEOP_CLOSE_PAREN '{'
        TermList '}'          {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}

| PARSEOP_IF
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN
    {$$ = AslDoError(); yyclearin;}
;

IncludeTerm
: PARSEOP_INCLUDE
    PARSEOP_OPEN_PAREN
    String
    PARSEOP_CLOSE_PAREN      {$$ = TrSetOpIntegerValue (PARSEOP_INCLUDE, $3);
                                FIOpenIncludeFile ($3);}
;

IncludeEndTerm
: PARSEOP_INCLUDE_END      {$<n>$ = TrCreateLeafOp (PARSEOP_INCLUDE_END);
                                TrSetOpCurrentFilename ($$);}

```



;

IncTerm

```
: PARSEOP_INCREMENT
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_INCREMENT);}
  SuperName
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_INCREMENT
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

IndexFieldTerm

```
: PARSEOP_INDEXFIELD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_INDEXFIELD);}
  NameString
  NameStringItem
  OptionalAccessTypeKeyword
  OptionalLockRuleKeyword
  OptionalUpdateRuleKeyword
  PARSEOP_CLOSE_PAREN '{'
    FieldUnitList '}'      {$$ = TrLinkOpChildren ($<n>3,6,$4,$5,$6,$7,$8,$11);}
| PARSEOP_INDEXFIELD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN
  '{' error '}'           {$$ = AslDoError(); yyclearin;}
;
```

IndexTerm

```
: PARSEOP_INDEX
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_INDEX);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_INDEX
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

LAndTerm

```
: PARSEOP_LAND
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LAND);}
  TermArg
  TermArgItem
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_LAND
  PARSEOP_OPEN_PAREN
```



```

    error PARSEOP_CLOSE_PAREN
    {$$ = AslDoError(); yyclearin;}
;

LEqualTerm
: PARSEOP_LEQUAL
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LEQUAL);}
  TermArg
  TermArgItem
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_LEQUAL
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

LGreaterEqualTerm
: PARSEOP_LGREATEREQUAL
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LLESS);}
  TermArg
  TermArgItem
  PARSEOP_CLOSE_PAREN     {$$ = TrCreateOp (PARSEOP_LNOT, 1,
                                         TrLinkOpChildren ($<n>3,2,$4,$5));}
| PARSEOP_LGREATEREQUAL
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

LGreaterTerm
: PARSEOP_LGREATER
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LGREATER);}
  TermArg
  TermArgItem
  PARSEOP_CLOSE_PAREN
    {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_LGREATER
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

LLessEqualTerm
: PARSEOP_LLESSEQUAL
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LGREATER);}
  TermArg
  TermArgItem
  PARSEOP_CLOSE_PAREN     {$$ = TrCreateOp (PARSEOP_LNOT, 1,
                                         TrLinkOpChildren ($<n>3,2,$4,$5));}
| PARSEOP_LLESSEQUAL
  PARSEOP_OPEN_PAREN

```



```

    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

LLessTerm
: PARSEOP_LLESS
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LLESS);}
    TermArg
    TermArgItem
    PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_LLESS
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

LNotEqualTerm
: PARSEOP_LNOTEQUAL
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LEQUAL);}
    TermArg
    TermArgItem
    PARSEOP_CLOSE_PAREN     {$$ = TrCreateOp (PARSEOP_LNOT, 1,
                                         TrLinkOpChildren ($<n>3,2,$4,$5));}
| PARSEOP_LNOTEQUAL
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

LNotTerm
: PARSEOP_LNOT
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LNOT);}
    TermArg
    PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_LNOT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

LoadTableTerm
: PARSEOP_LOADTABLE
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LOADTABLE);}
    TermArg
    TermArgItem
    TermArgItem
    OptionalListString
    OptionalListString
    OptionalReference
    PARSEOP_CLOSE_PAREN     {$$ =
TrLinkOpChildren ($<n>3,6,$4,$5,$6,$7,$8,$9);}
| PARSEOP_LOADTABLE

```



```

PARSEOP_OPEN_PAREN
error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### LoadTerm

```

: PARSEOP_LOAD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LOAD);}
  NameString
  RequiredTarget
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_LOAD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### LocalTerm

```

: PARSEOP_LOCAL0      {$$ = TrCreateLeafOp (PARSEOP_LOCAL0);}
| PARSEOP_LOCAL1      {$$ = TrCreateLeafOp (PARSEOP_LOCAL1);}
| PARSEOP_LOCAL2      {$$ = TrCreateLeafOp (PARSEOP_LOCAL2);}
| PARSEOP_LOCAL3      {$$ = TrCreateLeafOp (PARSEOP_LOCAL3);}
| PARSEOP_LOCAL4      {$$ = TrCreateLeafOp (PARSEOP_LOCAL4);}
| PARSEOP_LOCAL5      {$$ = TrCreateLeafOp (PARSEOP_LOCAL5);}
| PARSEOP_LOCAL6
    {$$ = TrCreateLeafOp (PARSEOP_LOCAL6);}
| PARSEOP_LOCAL7      {$$ = TrCreateLeafOp (PARSEOP_LOCAL7);}
;

```

#### LorTerm

```

: PARSEOP_LOR
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_LOR);}
  TermArg
  TermArgItem
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_LOR
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### MatchTerm

```

: PARSEOP_MATCH
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_MATCH);}
  TermArg
  ',' MatchOpKeyword
  TermArgItem
  ',' MatchOpKeyword
  TermArgItem
  TermArgItem
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$7,$9,$10,$11);}

```



```
| PARSEOP_MATCH
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

MethodTerm

```
: PARSEOP_METHOD
  PARSEOP_OPEN_PAREN      {$<n>$
= TrCreateLeafOp (PARSEOP_METHOD); COMMENT_CAPTURE_OFF;}
  NameString
  OptionalByteConstExpr    {UtCheckIntegerRange ($5, 0, 7);}
  OptionalSerializeRuleKeyword
  OptionalByteConstExpr
  OptionalParameterTypePackage
  OptionalParameterTypesPackage
  PARSEOP_CLOSE_PAREN '{'  {COMMENT_CAPTURE_ON;}
    TermList '}'          {$$ = TrLinkOpChildren ($<n>3,7,
                                TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                                $5,$7,$8,$9,$10,$14);}
| PARSEOP_METHOD
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

MidTerm

```
: PARSEOP_MID
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_MID);}
  TermArg
  TermArgItem
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,4,$4,$5,$6,$7);}
| PARSEOP_MID
  PARSEOP_OPEN_PAREN
    error
  PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

ModTerm

```
: PARSEOP_MOD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_MOD);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_MOD
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```



;

#### MultiplyTerm

```
: PARSEOP_MULTIPLY
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_MULTIPLY);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_MULTIPLY
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### MutexTerm

```
: PARSEOP_MUTEX
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_MUTEX);}
  NameString
  OptionalSyncLevel
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren
($<n>3,2,
                                TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$5);}
| PARSEOP_MUTEX
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### NameTerm

```
: PARSEOP_NAME
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_NAME);}
  NameString
  ',' DataObject
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,
                                TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$6);}
| PARSEOP_NAME
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### NAndTerm

```
: PARSEOP_NAND
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_NAND);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_NAND
  PARSEOP_OPEN_PAREN
```



```

error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}

;

NoOpTerm
: PARSEOP_NOOP              {$$ = TrCreateOp (PARSEOP_NOOP, 0);}
;

NOrTerm
: PARSEOP_NOR
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_NOR);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_NOR
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

NotifyTerm
: PARSEOP_NOTIFY
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_NOTIFY);}
  SuperName
  TermArgItem
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_NOTIFY
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

NotTerm
: PARSEOP_NOT
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_NOT);}
  TermArg
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_NOT
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

ObjectTypeTerm
: PARSEOP_OBJECTTYPE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE);}
  ObjectTypeSource
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_OBJECTTYPE

```



```

    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

OffsetTerm
: PARSEOP_OFFSET
  PARSEOP_OPEN_PAREN
  AmlPackageLengthTerm
  PARSEOP_CLOSE_PAREN      {$$ = TrCreateOp (PARSEOP_OFFSET,1,$3);}
| PARSEOP_OFFSET
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

OpRegionTerm
: PARSEOP_OPERATIONREGION
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_OPERATIONREGION);}
  NameString
  ',' OpRegionSpaceIdTerm
  TermArgItem
  TermArgItem
  PARSEOP_CLOSE_PAREN
  {$$ = TrLinkOpChildren ($<n>3,4,
                          TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                          $6,$7,$8);}
| PARSEOP_OPERATIONREGION
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

OpRegionSpaceIdTerm
: RegionSpaceKeyword      {}
| ByteConst                {$$ = UtCheckIntegerRange ($1, 0x80, 0xFF);}
;

OrTerm
: PARSEOP_OR
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_OR);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_OR
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

PackageTerm

```



```

: PARSEOP_PACKAGE          {$<n>$ = TrCreateLeafOp (PARSEOP_VAR_PACKAGE);}
OptionalDataCount
'{' PackageList '}'      {$$ = TrLinkOpChildren ($<n>2,2,$3,$5);}

```

#### PowerResTerm

```

: PARSEOP_POWERRESOURCE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_POWERRESOURCE);}
  NameString
  ',' ByteConstExpr
  ',' WordConstExpr
  PARSEOP_CLOSE_PAREN '{'
    TermList '}'          {$$ = TrLinkOpChildren ($<n>3,4,
                                     TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                                     $6,$8,$11);}
| PARSEOP_POWERRESOURCE
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

```

#### PrintfTerm

```

: PARSEOP_PRINTF
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_PRINTF);}
  StringLiteral
  PrintfArgList
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_PRINTF
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

```

#### PrintfArgList

```

:          {$$ = NULL;}
| TermArg      {$$ = $1;}
| PrintfArgList ','
  TermArg      {$$ = TrLinkPeerOp ($1, $3);}
;

```

#### ProcessorTerm

```

: PARSEOP_PROCESSOR
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_PROCESSOR);}
  NameString
  ',' ByteConstExpr
  OptionalDWordConstExpr
  OptionalByteConstExpr
  PARSEOP_CLOSE_PAREN '{'
    TermList '}'          {$$ = TrLinkOpChildren ($<n>3,5,
                                     TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                                     $6,$7,$8,$11);}

```



```

| PARSEOP_PROCESSOR
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

RawDataBufferTerm
: PARSEOP_DATABUFFER
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_DATABUFFER);}
  OptionalWordConst
  PARSEOP_CLOSE_PAREN '{'
    ByteList '}'          {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}

| PARSEOP_DATABUFFER
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

/*
* In RefOf, the node isn't really a target, but we can't keep track of it after
* we've taken a pointer to it. (hard to tell if a local becomes initialized this way.)
*/

RefOfTerm
: PARSEOP_REFOF
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_REFOF);}
  RefOfSource
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,1,
    TrSetOpFlags ($4, OP_IS_TARGET));}

| PARSEOP_REFOF
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

ReleaseTerm
: PARSEOP_RELEASE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_RELEASE);}
  SuperName
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,1,$4);}

| PARSEOP_RELEASE
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError();
yyclearin;}
;

ResetTerm
: PARSEOP_RESET
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_RESET);}
  SuperName
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,1,$4);}

```



```
| PARSEOP_RESET
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### ReturnTerm

```
: PARSEOP_RETURN
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_RETURN);}
  OptionalReturnArg
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_RETURN          {$$ = TrLinkOpChildren (
                          TrCreateLeafOp (PARSEOP_RETURN),1,
                          TrSetOpFlags (TrCreateLeafOp (PARSEOP_ZERO),
                          OP_IS_NULL_RETURN));}
| PARSEOP_RETURN
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### ScopeTerm

```
: PARSEOP_SCOPE

  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SCOPE);}
  NameString
  PARSEOP_CLOSE_PAREN '{'
    TermList '}'          {$$ = TrLinkOpChildren ($<n>3,2,
                          TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$7);}
| PARSEOP_SCOPE
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### ShiftLeftTerm

```
: PARSEOP_SHIFTLEFT
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTLEFT);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_SHIFTLEFT
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### ShiftRightTerm

```
: PARSEOP_SHIFTRIGHT
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTRIGHT);}
  TermArg
```



```

TermArgItem
Target
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren
($<n>3,3,$4,$5,$6);}
| PARSEOP_SHIFTRIGHT
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

SignalTerm
: PARSEOP_SIGNAL
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SIGNAL);}
  SuperName
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_SIGNAL
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

SizeOfTerm
: PARSEOP_SIZEOF
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SIZEOF);}
  SuperName
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_SIZEOF
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

SleepTerm
: PARSEOP_SLEEP
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SLEEP);}
  TermArg
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_SLEEP
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

StallTerm
: PARSEOP_STALL
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_STALL);}
  TermArg
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_STALL
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```



#### StoreTerm

```
: PARSEOP_STORE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_STORE);}
  TermArg
  ',' SuperName
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,
                                TrSetOpFlags ($6, OP_IS_TARGET));}
| PARSEOP_STORE
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### SubtractTerm

```
: PARSEOP_SUBTRACT
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SUBTRACT);}
  TermArg
  TermArgItem
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_SUBTRACT
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### SwitchTerm

```
: PARSEOP_SWITCH
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SWITCH);}
  TermArg
  PARSEOP_CLOSE_PAREN '{'
    CaseDefaultTermList '}' {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
| PARSEOP_SWITCH
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### ThermalZoneTerm

```
: PARSEOP_THERMALZONE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_THERMALZONE);}
  NameString
  PARSEOP_CLOSE_PAREN '{'
    TermList '}'          {$$ = TrLinkOpChildren ($<n>3,2,
                                TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$7);}
| PARSEOP_THERMALZONE
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```



#### TimerTerm

```
: PARSEOP_TIMER
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_TIMER);}
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,0);}
| PARSEOP_TIMER           {$$ = TrLinkOpChildren (
                          TrCreateLeafOp (PARSEOP_TIMER),0);}
| PARSEOP_TIMER
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### ToBCDTerm

```
: PARSEOP_TOBCD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_TOBCD);}
  TermArg
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_TOBCD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### ToBufferTerm

```
: PARSEOP_TOBUFFER
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_TOBUFFER);}
  TermArg
  Target

  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_TOBUFFER
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### ToDecimalStringTerm

```
: PARSEOP_TODECIMALSTRING
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_TODECIMALSTRING);}
  TermArg
  Target
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_TODECIMALSTRING
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;
```

#### ToHexStringTerm

```
: PARSEOP_TOHEXSTRING
```



```

    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_TOHEXSTRING);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_TOHEXSTRING
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

ToIntegerTerm

```

: PARSEOP_TOINTEGER
    PARSEOP_OPEN_PAREN
    {$<n>$ = TrCreateLeafOp (PARSEOP_TOINTEGER);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
| PARSEOP_TOINTEGER
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

ToPLDTerm

```

: PARSEOP_TOPLD
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_TOPLD);}
    PldKeywordList
    PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_TOPLD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

PldKeywordList

```

:                               {$$ = NULL;}
| PldKeyword
    PARSEOP_EXP_EQUALS Integer {$$ = TrLinkOpChildren ($1,1,$3);}
| PldKeyword
    PARSEOP_EXP_EQUALS String  {$$ = TrLinkOpChildren ($1,1,$3);}
| PldKeywordList ','          /* Allows a trailing comma at list end */
| PldKeywordList ' '
    PldKeyword
    PARSEOP_EXP_EQUALS
Integer {$$ = TrLinkPeerOp ($1,TrLinkOpChildren ($3,1,$5));}
| PldKeywordList ' '
    PldKeyword
    PARSEOP_EXP_EQUALS String  {$$ = TrLinkPeerOp ($1,TrLinkOpChildren ($3,1,$5));}
;

```



#### ToStringTerm

```
: PARSEOP_TOSTRING
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_TOSTRING);}
  TermArg
  OptionalCount
  Target
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_TOSTRING
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### ToUUIDTerm

```
: PARSEOP_TOUUID
  PARSEOP_OPEN_PAREN
  StringLiteral
  PARSEOP_CLOSE_PAREN      {$$ = TrSetOpIntegerValue (PARSEOP_TOUUID, $3);}
| PARSEOP_TOUUID
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### UnicodeTerm

```
: PARSEOP_UNICODE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_UNICODE);}
  StringLiteral
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,2,0,$4);}
| PARSEOP_UNICODE
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### UnloadTerm

```
: PARSEOP_UNLOAD
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_UNLOAD);}
  SuperName
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,1,$4);}
| PARSEOP_UNLOAD
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### WaitTerm

```
: PARSEOP_WAIT
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_WAIT);}
  SuperName
  TermArgItem
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
;
```



```

| PARSEOP_WAIT
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

XOrTerm
: PARSEOP_XOR
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_XOR);}
  TermArg

TermArgItem
  Target
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
| PARSEOP_XOR
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

WhileTerm
: PARSEOP_WHILE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_WHILE);}
  TermArg
  PARSEOP_CLOSE_PAREN
    '{ ' TermList '}'      {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
| PARSEOP_WHILE
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslprimaries.y

No license file was found, but licenses were detected in source scan.

```

%{
/*****
*
* Module Name: dtcompilerparser.l - Flex input file for table compiler lexer
*
*****/

/*****
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\*\*\*\*\*/



```

#include "aslcompiler.h"
#include "dtcompilerparser.y.h"

#define _COMPONENT      ACPI_COMPILER
        ACPI_MODULE_NAME    ("dtcompilerscanner")

/* handle locations */

int DtCompilerParsercolumn = 1;
int DtLabelByteOffset = 0;
int DtCompilerParserByteOffset = 0;

UINT32 DtTokenFirstLine = 0;
UINT32 DtTokenFirstColumn = 0;

#define YY_USER_ACTION \
        DtTokenFirstLine = DtCompilerParserlineno; \
        DtTokenFirstColumn = DtCompilerParsercolumn; \
        DtCompilerParsercolumn += DtCompilerParserleng; \
        DtCompilerParserByteOffset \
+= DtCompilerParserleng; \
        DbgPrint (ASL_PARSE_OUTPUT, \
        "user action occurred. DtCompilerParserlloc.first_line: %u\n", \
        DtTokenFirstLine);
%}

%option nounput noinput yylineno

/* Indicates a state used for parsing multiline C comments */
%x ML_COMMENT
%x DATA_STATE

WhiteSpace    [ \t\v\r]+
NewLines      [\n]+

/* Avoid ", \n, and [] as a part of label name. These are not valid characters of a label name */
LabelName     [^ ":\n\[\]]( [^ ":\n\[\]]* [^ ":\n\[\]] )?

/* Avoid ", \n, \, and [] as a part of data. These are not valid characters of data */
Data          [^ \\"':\n\[\]]( [^ \\"':\n\[\]]* [^ \\"':\n\[\]] )?

Text          [^ ":\n][^ ":\n]*
Comment       \[ [^ \n\[\]]* \]
CommentField  {LabelName} {WhiteSpace}* {WhiteSpace} {Comment} ?$

%%

```



```

<DATA_STATE>{WhiteSpace}"\\n" {
    DbgPrint(ASL_PARSE_OUTPUT,"Continuation matched\n");
    return (DT_PARSEOP_LINE_CONTINUATION);
}

":" {
    DbgPrint(ASL_PARSE_OUTPUT,
": Matched\n");
    BEGIN (DATA_STATE);
    return (':');
}

<INITIAL,DATA_STATE>{WhiteSpace} { DbgPrint(ASL_PARSE_OUTPUT,"Whitespace matched\n"); }

<INITIAL,DATA_STATE>{Comment} { DbgPrint(ASL_PARSE_OUTPUT,"Comment matched\n"); }

"/*"          { BEGIN (ML_COMMENT); }
<ML_COMMENT>"*/"      { BEGIN (INITIAL); }
<ML_COMMENT>"*\n"      { BEGIN (INITIAL); }
<ML_COMMENT>([^\n]+|. /* Ignore */
"/*".*          /* Ignore */

<DATA_STATE>{Data} {
    char *s;
    int size = strlen (DtCompilerParsertext);
    s=UtLocalCacheCalloc (size + 1);
    AcpiUtSafeStrncpy (s, DtCompilerParsertext, size + 1);
    DtCompilerParserlval.s = s;
    DbgPrint (ASL_PARSE_OUTPUT, "Data: %s\n", s);
    return (DT_PARSEOP_DATA);
}

{CommentField} /* ignore */

{LabelName} {
    char *s;
    int size = strlen (DtCompilerParsertext);
    s=UtLocalCacheCalloc (size + 1);
    AcpiUtSafeStrncpy (s, DtCompilerParsertext, size + 1);
    DtCompilerParserlval.u
= (DT_TABLE_UNIT *) UtLocalCacheCalloc (sizeof (DT_TABLE_UNIT));
    DtCompilerParserlval.u->Value = s;
    DtCompilerParserlval.u->Line = DtCompilerParserlineno;
    DtCompilerParserlval.u->Column = DtCompilerParsercolumn;
    DtLabelByteOffset = DtCompilerParserByteOffset;
    DbgPrint (ASL_PARSE_OUTPUT, "Label: %s\n", s);

```



```

    return (DT_PARSEOP_LABEL);
}

<DATA_STATE>\{"Text"?\" { // remove outer quotes from the string, they are unnecessary
    char *s;
    int size = strlen (DtCompilerParsertext);
    s=UtLocalCacheCalloc (size - 1);
    AcpiUtSafeStrncpy (s, DtCompilerParsertext + 1, size - 1);
    DtCompilerParserlval.s = s;
    DbgPrint (ASL_PARSE_OUTPUT, "String Data: %s\n", s);
    BEGIN (INITIAL);
    return (DT_PARSEOP_STRING_DATA);
}

<INITIAL,DATA_STATE>{NewLines} {
    DbgPrint(ASL_PARSE_OUTPUT,
        "Newline matched (data state). Current line number: %u\n",DtCompilerParserlineno);
    BEGIN (INITIAL); DtCompilerParsercolumn = 1;
}

%%

/*
 * Local
 * support functions
 */

void
DtCompilerInitLexer (
    FILE          *inFile)
{
    yyin = inFile;
}

void
DtCompilerTerminateLexer (
    void)
{
    /*
     * Flex/Bison increments the lineno for the EOF so decrement by 1 to get
     * the correct number of lines.
     */
    AslGbl_CurrentLineNumber = DtCompilerParserlineno - 1;
    AslGbl_InputByteCount = DtCompilerParserByteOffset;
}

```



}

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/dtcompilerparser.l

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\* Module Name: aslkeywords.y - Rules for resource descriptor keywords

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\* ASL Parameter Keyword Terms

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AccessAttribKeyword

```

: PARSEOP_ACCESSATTRIB_BLOCK      {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_BLOCK);}
| PARSEOP_ACCESSATTRIB_BLOCK_CALL  {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_BLOCK_CALL);}
| PARSEOP_ACCESSATTRIB_BYTE        {$$ = TrCreateLeafOp (PARSEOP_ACCESSATTRIB_BYTE);}
| PARSEOP_ACCESSATTRIB_QUICK       {$$
= TrCreateLeafOp (PARSEOP_ACCESSATTRIB_QUICK );}
| PARSEOP_ACCESSATTRIB_SND_RCV     {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_SND_RCV);}
| PARSEOP_ACCESSATTRIB_WORD        {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_WORD);}
| PARSEOP_ACCESSATTRIB_WORD_CALL   {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_WORD_CALL);}
| PARSEOP_ACCESSATTRIB_BYTES
  PARSEOP_OPEN_PAREN               {$<n>$ = TrCreateLeafOp (PARSEOP_ACCESSATTRIB_BYTES);}
  ByteConst
  PARSEOP_CLOSE_PAREN              {$$ = TrLinkOpChildren ($<n>3,1,$4);}

```



```

| PARSEOP_ACCESSATTRIB_RAW_BYTES
    PARSEOP_OPEN_PAREN          {<n>$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_RAW_BYTES);}
    ByteConst
    PARSEOP_CLOSE_PAREN          {$$ = TrLinkOpChildren (<n>3,1,$4);}
| PARSEOP_ACCESSATTRIB_RAW_PROCESS
    PARSEOP_OPEN_PAREN          {<n>$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_RAW_PROCESS);}
    ByteConst
    PARSEOP_CLOSE_PAREN          {$$ = TrLinkOpChildren (<n>3,1,$4);}
;

AccessTypeKeyword
: PARSEOP_ACCESSTYPE_ANY          {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_ANY);}
| PARSEOP_ACCESSTYPE_BYTE          {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_BYTE);}
| PARSEOP_ACCESSTYPE_WORD          {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_WORD);}
| PARSEOP_ACCESSTYPE_DWORD          {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_DWORD);}
| PARSEOP_ACCESSTYPE_QWORD          {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_QWORD);}
| PARSEOP_ACCESSTYPE_BUF          {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_BUF);}
;

AddressingModeKeyword
: PARSEOP_ADDRESSINGMODE_7BIT      {$$ = TrCreateLeafOp
(PARSEOP_ADDRESSINGMODE_7BIT);}
| PARSEOP_ADDRESSINGMODE_10BIT      {$$ = TrCreateLeafOp
(PARSEOP_ADDRESSINGMODE_10BIT);}
;

AddressKeyword
: PARSEOP_ADDRESSTYPE_MEMORY        {$$ = TrCreateLeafOp
(PARSEOP_ADDRESSTYPE_MEMORY);}
| PARSEOP_ADDRESSTYPE_RESERVED      {$$ = TrCreateLeafOp
(PARSEOP_ADDRESSTYPE_RESERVED);}
| PARSEOP_ADDRESSTYPE_NVS          {$$ = TrCreateLeafOp (PARSEOP_ADDRESSTYPE_NVS);}
| PARSEOP_ADDRESSTYPE_ACPI          {$$ = TrCreateLeafOp (PARSEOP_ADDRESSTYPE_ACPI);}
;

AddressSpaceKeyword
: ByteConst                        {$$ = UtCheckIntegerRange ($1, ACPI_NUM_PREDEFINED_REGIONS, 0xFF);}
| RegionSpaceKeyword              {}
;

BitsPerByteKeyword
: PARSEOP_BITSPERBYTE_FIVE          {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_FIVE);}
| PARSEOP_BITSPERBYTE_SIX          {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_SIX);}
| PARSEOP_BITSPERBYTE_SEVEN        {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_SEVEN);}
| PARSEOP_BITSPERBYTE_EIGHT        {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_EIGHT);}

```



```

| PARSEOP_BITSPERBYTE_NINE      {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_NINE);}
;

ClockPhaseKeyword
: PARSEOP_CLOCKPHASE_FIRST
    {$$ = TrCreateLeafOp (PARSEOP_CLOCKPHASE_FIRST);}
| PARSEOP_CLOCKPHASE_SECOND      {$$ = TrCreateLeafOp
(PARSEOP_CLOCKPHASE_SECOND);}
;

ClockPolarityKeyword
: PARSEOP_CLOCKPOLARITY_LOW      {$$ = TrCreateLeafOp
(PARSEOP_CLOCKPOLARITY_LOW);}
| PARSEOP_CLOCKPOLARITY_HIGH      {$$ = TrCreateLeafOp
(PARSEOP_CLOCKPOLARITY_HIGH);}
;

DecodeKeyword
: PARSEOP_DECODETYPE_POS          {$$ = TrCreateLeafOp (PARSEOP_DECODETYPE_POS);}
| PARSEOP_DECODETYPE_SUB          {$$ = TrCreateLeafOp (PARSEOP_DECODETYPE_SUB);}
;

DevicePolarityKeyword
: PARSEOP_DEVICEPOLARITY_LOW      {$$ = TrCreateLeafOp
(PARSEOP_DEVICEPOLARITY_LOW);}
| PARSEOP_DEVICEPOLARITY_HIGH      {$$ = TrCreateLeafOp
(PARSEOP_DEVICEPOLARITY_HIGH);}
;

DMATypeKeyword
: PARSEOP_DMATYPE_A              {$$ = TrCreateLeafOp (PARSEOP_DMATYPE_A);}
| PARSEOP_DMATYPE_COMPATIBILITY    {$$ = TrCreateLeafOp
(PARSEOP_DMATYPE_COMPATIBILITY);}
| PARSEOP_DMATYPE_B              {$$ = TrCreateLeafOp (PARSEOP_DMATYPE_B);}
| PARSEOP_DMATYPE_F              {$$ = TrCreateLeafOp (PARSEOP_DMATYPE_F);}
;

EndianKeyword
: PARSEOP_ENDIAN_LITTLE          {$$ = TrCreateLeafOp (PARSEOP_ENDIAN_LITTLE);}
| PARSEOP_ENDIAN_BIG            {$$ = TrCreateLeafOp (PARSEOP_ENDIAN_BIG);}
;

FlowControlKeyword
: PARSEOP_FLOWCONTROL_HW          {$$ = TrCreateLeafOp (PARSEOP_FLOWCONTROL_HW);}
| PARSEOP_FLOWCONTROL_NONE        {$$ = TrCreateLeafOp
(PARSEOP_FLOWCONTROL_NONE);}
| PARSEOP_FLOWCONTROL_SW          {$$ = TrCreateLeafOp (PARSEOP_FLOWCONTROL_SW);}
;

```



#### InterruptLevel

```
: PARSEOP_INTLEVEL_ACTIVEBOTH      {$$ = TrCreateLeafOp
(PARSEOP_INTLEVEL_ACTIVEBOTH);}
| PARSEOP_INTLEVEL_ACTIVEHIGH      {$$ = TrCreateLeafOp
(PARSEOP_INTLEVEL_ACTIVEHIGH);}
| PARSEOP_INTLEVEL_ACTIVELOW       {$$ = TrCreateLeafOp
(PARSEOP_INTLEVEL_ACTIVELOW);}
;
```

#### InterruptTypeKeyword

```
: PARSEOP_INTTYPE_EDGE      {$$ = TrCreateLeafOp (PARSEOP_INTTYPE_EDGE);}
| PARSEOP_INTTYPE_LEVEL     {$$ = TrCreateLeafOp (PARSEOP_INTTYPE_LEVEL);}
;
```

#### IODecodeKeyword

```
: PARSEOP_IODECODETYPE_16      {$$ = TrCreateLeafOp (PARSEOP_IODECODETYPE_16);}
| PARSEOP_IODECODETYPE_10     {$$ = TrCreateLeafOp (PARSEOP_IODECODETYPE_10);}
;
```

#### IoRestrictionKeyword

```
: PARSEOP_IORESTRICT_IN      {$$ = TrCreateLeafOp (PARSEOP_IORESTRICT_IN);}
| PARSEOP_IORESTRICT_OUT     {$$ = TrCreateLeafOp (PARSEOP_IORESTRICT_OUT);}
| PARSEOP_IORESTRICT_NONE    {$$ = TrCreateLeafOp (PARSEOP_IORESTRICT_NONE);}
| PARSEOP_IORESTRICT_PRESERVE {$$ = TrCreateLeafOp
(PARSEOP_IORESTRICT_PRESERVE);}
;
```

#### LockRuleKeyword

```
: PARSEOP_LOCKRULE_LOCK      {$$ = TrCreateLeafOp (PARSEOP_LOCKRULE_LOCK);}
| PARSEOP_LOCKRULE_NOLOCK    {$$ = TrCreateLeafOp
(PARSEOP_LOCKRULE_NOLOCK);}
;
```

#### MatchOpKeyword

```
: PARSEOP_MATCHTYPE_MTR      {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MTR);}
| PARSEOP_MATCHTYPE_MEQ      {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MEQ);}
| PARSEOP_MATCHTYPE_MLE      {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MLE);}
| PARSEOP_MATCHTYPE_MLT      {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MLT);}
| PARSEOP_MATCHTYPE_MGE      {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MGE);}
| PARSEOP_MATCHTYPE_MGT      {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MGT);}
;
```

#### MaxKeyword

```
: PARSEOP_MAXTYPE_FIXED      {$$ = TrCreateLeafOp (PARSEOP_MAXTYPE_FIXED);}
| PARSEOP_MAXTYPE_NOTFIXED    {$$ = TrCreateLeafOp (PARSEOP_MAXTYPE_NOTFIXED);}
;
```



#### MemTypeKeyword

```
: PARSEOP_MEMTYPE_CACHEABLE      {$$ = TrCreateLeafOp
(PARSEOP_MEMTYPE_CACHEABLE);}
| PARSEOP_MEMTYPE_WRITECOMBINING  {$$ = TrCreateLeafOp
(PARSEOP_MEMTYPE_WRITECOMBINING);}
| PARSEOP_MEMTYPE_PREFETCHABLE    {$$ = TrCreateLeafOp
(PARSEOP_MEMTYPE_PREFETCHABLE);}
| PARSEOP_MEMTYPE_NONCACHEABLE    {$$ = TrCreateLeafOp
(PARSEOP_MEMTYPE_NONCACHEABLE);}
;
```

#### MinKeyword

```
: PARSEOP_MINTYPE_FIXED           {$$ = TrCreateLeafOp (PARSEOP_MINTYPE_FIXED);}
| PARSEOP_MINTYPE_NOTFIXED        {$$ = TrCreateLeafOp (PARSEOP_MINTYPE_NOTFIXED);}
;
```

#### ObjectTypeKeyword

```
: PARSEOP_OBJECTTYPE_UNK         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_UNK);}
| PARSEOP_OBJECTTYPE_INT         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_INT);}
| PARSEOP_OBJECTTYPE_STR         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_STR);}
| PARSEOP_OBJECTTYPE_BUF         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_BUF);}
| PARSEOP_OBJECTTYPE_PKG         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_PKG);}
| PARSEOP_OBJECTTYPE_FLD         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_FLD);}
| PARSEOP_OBJECTTYPE_DEV         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_DEV);}
| PARSEOP_OBJECTTYPE_EVT         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_EVT);}
| PARSEOP_OBJECTTYPE_MTH         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_MTH);}
| PARSEOP_OBJECTTYPE_MTX         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_MTX);}
| PARSEOP_OBJECTTYPE_OPR         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_OPR);}
| PARSEOP_OBJECTTYPE_POW         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_POW);}
| PARSEOP_OBJECTTYPE_PRO         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_PRO);}
| PARSEOP_OBJECTTYPE_THZ         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_THZ);}
| PARSEOP_OBJECTTYPE_BFF         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_BFF);}
| PARSEOP_OBJECTTYPE_DDB         {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_DDB);}
;
```

#### ParityTypeKeyword

```
: PARSEOP_PARITYTYPE_SPACE       {$$ = TrCreateLeafOp
(PARSEOP_PARITYTYPE_SPACE);}
| PARSEOP_PARITYTYPE_MARK        {$$ = TrCreateLeafOp (PARSEOP_PARITYTYPE_MARK);}
| PARSEOP_PARITYTYPE_ODD         {$$ = TrCreateLeafOp (PARSEOP_PARITYTYPE_ODD);}
| PARSEOP_PARITYTYPE_EVEN        {$$ = TrCreateLeafOp (PARSEOP_PARITYTYPE_EVEN);}
| PARSEOP_PARITYTYPE_NONE        {$$ = TrCreateLeafOp (PARSEOP_PARITYTYPE_NONE);}
;
```

#### PinConfigByte

```
: PinConfigKeyword               {$$ = $1;}
| ByteConstExpr                  {$$ = UtCheckIntegerRange ($1, 0x80, 0xFF);}
;
```



#### PinConfigKeyword

```
: PARSEOP_PIN_NOPULL          {$$ = TrCreateLeafOp (PARSEOP_PIN_NOPULL);}
| PARSEOP_PIN_PULLDOWN        {$$ = TrCreateLeafOp (PARSEOP_PIN_PULLDOWN);}
| PARSEOP_PIN_PULLUP          {$$ = TrCreateLeafOp (PARSEOP_PIN_PULLUP);}
| PARSEOP_PIN_PULLDEFAULT     {$$ = TrCreateLeafOp (PARSEOP_PIN_PULLDEFAULT);}
;
```

#### PldKeyword

```
: PARSEOP_PLD_REVISION
    {$$ = TrCreateLeafOp (PARSEOP_PLD_REVISION);}
| PARSEOP_PLD_IGNORECOLOR     {$$ = TrCreateLeafOp (PARSEOP_PLD_IGNORECOLOR);}
| PARSEOP_PLD_RED              {$$ = TrCreateLeafOp (PARSEOP_PLD_RED);}
| PARSEOP_PLD_GREEN           {$$ = TrCreateLeafOp (PARSEOP_PLD_GREEN);}
| PARSEOP_PLD_BLUE            {$$ = TrCreateLeafOp (PARSEOP_PLD_BLUE);}
| PARSEOP_PLD_WIDTH           {$$ = TrCreateLeafOp (PARSEOP_PLD_WIDTH);}
| PARSEOP_PLD_HEIGHT          {$$ = TrCreateLeafOp (PARSEOP_PLD_HEIGHT);}
| PARSEOP_PLD_USERVISIBLE     {$$ = TrCreateLeafOp (PARSEOP_PLD_USERVISIBLE);}
| PARSEOP_PLD_DOCK            {$$ = TrCreateLeafOp (PARSEOP_PLD_DOCK);}
| PARSEOP_PLD_LID             {$$ = TrCreateLeafOp (PARSEOP_PLD_LID);}
| PARSEOP_PLD_PANEL           {$$ = TrCreateLeafOp (PARSEOP_PLD_PANEL);}
| PARSEOP_PLD_VERTICALPOSITION {$$ = TrCreateLeafOp
(PARSEOP_PLD_VERTICALPOSITION);}
| PARSEOP_PLD_HORIZONTALPOSITION {$$ = TrCreateLeafOp
(PARSEOP_PLD_HORIZONTALPOSITION);}
| PARSEOP_PLD_SHAPE           {$$ = TrCreateLeafOp (PARSEOP_PLD_SHAPE);}
| PARSEOP_PLD_GROUPORIENTATION {$$ = TrCreateLeafOp
(PARSEOP_PLD_GROUPORIENTATION);}
| PARSEOP_PLD_GROUPTOKEN      {$$ = TrCreateLeafOp (PARSEOP_PLD_GROUPTOKEN);}
| PARSEOP_PLD_GROUPPOSITION   {$$ = TrCreateLeafOp (PARSEOP_PLD_GROUPPOSITION);}
| PARSEOP_PLD_BAY             {$$ = TrCreateLeafOp (PARSEOP_PLD_BAY);}
| PARSEOP_PLD_EJECTABLE       {$$ = TrCreateLeafOp (PARSEOP_PLD_EJECTABLE);}
| PARSEOP_PLD_EJECTREQUIRED   {$$ = TrCreateLeafOp (PARSEOP_PLD_EJECTREQUIRED);}
| PARSEOP_PLD_CABINETNUMBER   {$$ = TrCreateLeafOp
(PARSEOP_PLD_CABINETNUMBER);}
| PARSEOP_PLD_CARDCAGENUMBER   {$$ = TrCreateLeafOp
(PARSEOP_PLD_CARDCAGENUMBER);}
| PARSEOP_PLD_REFERENCE
    {$$ = TrCreateLeafOp (PARSEOP_PLD_REFERENCE);}
| PARSEOP_PLD_ROTATION         {$$ = TrCreateLeafOp (PARSEOP_PLD_ROTATION);}
| PARSEOP_PLD_ORDER           {$$ = TrCreateLeafOp (PARSEOP_PLD_ORDER);}
| PARSEOP_PLD_RESERVED        {$$ = TrCreateLeafOp (PARSEOP_PLD_RESERVED);}
| PARSEOP_PLD_VERTICALOFFSET   {$$ = TrCreateLeafOp (PARSEOP_PLD_VERTICALOFFSET);}
| PARSEOP_PLD_HORIZONTALOFFSET {$$ = TrCreateLeafOp
(PARSEOP_PLD_HORIZONTALOFFSET);}
;
```

#### RangeTypeKeyword



```

: PARSEOP_RANGETYPE_ISAONLY      {$$ = TrCreateLeafOp (PARSEOP_RANGETYPE_ISAONLY);}
| PARSEOP_RANGETYPE_NONISAONLY    {$$ = TrCreateLeafOp
(PARSEOP_RANGETYPE_NONISAONLY);}
| PARSEOP_RANGETYPE_ENTIRE        {$$ = TrCreateLeafOp (PARSEOP_RANGETYPE_ENTIRE);}
;

```

#### RegionSpaceKeyword

```

: PARSEOP_REGIONSPACE_IO          {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_IO);}
| PARSEOP_REGIONSPACE_MEM         {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_MEM);}
| PARSEOP_REGIONSPACE_PCI         {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_PCI);}
| PARSEOP_REGIONSPACE_EC         {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_EC);}
| PARSEOP_REGIONSPACE_SMBUS      {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_SMBUS);}
| PARSEOP_REGIONSPACE_CMOS       {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_CMOS);}
| PARSEOP_REGIONSPACE_PCIBAR     {$$ = TrCreateLeafOp
(PARSEOP_REGIONSPACE_PCIBAR);}
| PARSEOP_REGIONSPACE_IPMI       {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_IPMI);}
| PARSEOP_REGIONSPACE_GPIO       {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_GPIO);}
| PARSEOP_REGIONSPACE_GSBUS      {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_GSBUS);}
| PARSEOP_REGIONSPACE_PCC        {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_PCC);}
| PARSEOP_REGIONSPACE_PRM        {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_PRM);}
| PARSEOP_REGIONSPACE_FFIXEDHW   {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_FFIXEDHW);}
;

```

#### ResourceTypeKeyword

```

: PARSEOP_RESOURCECETYPE_CONSUMER {$$ = TrCreateLeafOp
(PARSEOP_RESOURCECETYPE_CONSUMER);}
| PARSEOP_RESOURCECETYPE_PRODUCER {$$ = TrCreateLeafOp
(PARSEOP_RESOURCECETYPE_PRODUCER);}
;

```

#### SerializeRuleKeyword

```

: PARSEOP_SERIALIZERULE_SERIAL    {$$ = TrCreateLeafOp
(PARSEOP_SERIALIZERULE_SERIAL);}
| PARSEOP_SERIALIZERULE_NOTSERIAL {$$ = TrCreateLeafOp
(PARSEOP_SERIALIZERULE_NOTSERIAL);}
;

```

#### ShareTypeKeyword

```

: PARSEOP_SHARETYPE_SHARED        {$$ = TrCreateLeafOp (PARSEOP_SHARETYPE_SHARED);}
| PARSEOP_SHARETYPE_EXCLUSIVE     {$$ = TrCreateLeafOp
(PARSEOP_SHARETYPE_EXCLUSIVE);}
| PARSEOP_SHARETYPE_SHAREDWAKE    {$$ = TrCreateLeafOp
(PARSEOP_SHARETYPE_SHAREDWAKE);}
| PARSEOP_SHARETYPE_EXCLUSIVWAKE  {$$ = TrCreateLeafOp
(PARSEOP_SHARETYPE_EXCLUSIVWAKE);}
;

```



#### SlaveModeKeyword

```
: PARSEOP_SLAVEMODE_CONTROLLERINIT
    {$$ = TrCreateLeafOp (PARSEOP_SLAVEMODE_CONTROLLERINIT);}
| PARSEOP_SLAVEMODE_DEVICEINIT      {$$ = TrCreateLeafOp
(PARSEOP_SLAVEMODE_DEVICEINIT);}
;
```

#### StopBitsKeyword

```
: PARSEOP_STOPBITS_TWO      {$$ = TrCreateLeafOp (PARSEOP_STOPBITS_TWO);}
| PARSEOP_STOPBITS_ONEPLUSHALF  {$$ = TrCreateLeafOp
(PARSEOP_STOPBITS_ONEPLUSHALF);}
| PARSEOP_STOPBITS_ONE      {$$ = TrCreateLeafOp (PARSEOP_STOPBITS_ONE);}
| PARSEOP_STOPBITS_ZERO      {$$ = TrCreateLeafOp (PARSEOP_STOPBITS_ZERO);}
;
```

#### TranslationKeyword

```
: PARSEOP_TRANSLATIONTYPE_SPARSE    {$$ = TrCreateLeafOp
(PARSEOP_TRANSLATIONTYPE_SPARSE);}
| PARSEOP_TRANSLATIONTYPE_DENSE      {$$ = TrCreateLeafOp
(PARSEOP_TRANSLATIONTYPE_DENSE);}
;
```

#### TypeKeyword

```
: PARSEOP_TYPE_TRANSLATION    {$$ = TrCreateLeafOp (PARSEOP_TYPE_TRANSLATION);}
| PARSEOP_TYPE_STATIC          {$$ = TrCreateLeafOp (PARSEOP_TYPE_STATIC);}
;
```

#### UpdateRuleKeyword

```
: PARSEOP_UPDATERULE_PRESERVE    {$$ = TrCreateLeafOp
(PARSEOP_UPDATERULE_PRESERVE);}
| PARSEOP_UPDATERULE_ONES        {$$ = TrCreateLeafOp (PARSEOP_UPDATERULE_ONES);}
| PARSEOP_UPDATERULE_ZEROS       {$$ = TrCreateLeafOp (PARSEOP_UPDATERULE_ZEROS);}
;
```

#### WireModeKeyword

```
: PARSEOP_WIREMODE_FOUR      {$$ = TrCreateLeafOp (PARSEOP_WIREMODE_FOUR);}
| PARSEOP_WIREMODE_THREE     {$$ = TrCreateLeafOp (PARSEOP_WIREMODE_THREE);}
;
```

#### XferSizeKeyword

```
: PARSEOP_XFERSIZE_8          {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_8, 0);}
| PARSEOP_XFERSIZE_16         {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_16, 1);}
| PARSEOP_XFERSIZE_32         {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_32, 2);}
| PARSEOP_XFERSIZE_64         {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_64, 3);}
| PARSEOP_XFERSIZE_128        {$$ = TrCreateValuedLeafOp
```



```
(PARSEOP_XFERSIZE_128, 4);}
| PARSEOP_XFERSIZE_256      {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_256, 5);}
;

XferTypeKeyword
: PARSEOP_XFERTYPE_8      {$$ = TrCreateLeafOp (PARSEOP_XFERTYPE_8);}
| PARSEOP_XFERTYPE_8_16   {$$ = TrCreateLeafOp (PARSEOP_XFERTYPE_8_16);}
| PARSEOP_XFERTYPE_16     {$$ = TrCreateLeafOp (PARSEOP_XFERTYPE_16);}
;
```

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslkeywords.y

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```
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/*****
*
* Module Name: dtcompilerparser.y - Bison input file for table compiler parser
*
*****/

/*****
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\*\*\*\*\*/

```
#include "aslcompiler.h"
```

```
#define _COMPONENT      DT_COMPILER
        ACPI_MODULE_NAME  ("dtcompilerparser")
```

```
void *      AslLocalAllocate (unsigned int Size);
```

```
/* Bison/yacc configuration */
```

```
#undef alloca
```

```
#define alloca      AslLocalAllocate
```

```
int      DtCompilerParserlex (void);
int      DtCompilerParserparse (void);
void      DtCompilerParsererror (char const *msg);
extern char      *DtCompilerParsertext;
extern DT_FIELD      *AslGbl_CurrentField;
```



```

extern
int      DtLabelByteOffset;
extern UINT64      DtCompilerParserlineno; /* Current line number */

extern UINT32      DtTokenFirstLine;
extern UINT32      DtTokenFirstColumn;

/* Bison/yacc configuration */

#define yyname      DtCompilerParsername
#define YYDEBUG      1      /* Enable debug output */
#define YYERROR_VERBOSE  1      /* Verbose error messages */
#define YYFLAG      -32768

/* Define YYMALLOC/YYFREE to prevent redefinition errors */

#define YYMALLOC      malloc
#define YYFREE      free

%}

%union {
    char      *s;
    DT_FIELD      *f;
    DT_TABLE_UNIT      *u;
}

%type <f> Table
%token <u> DT_PARSEOP_DATA
%token <u> DT_PARSEOP_LABEL
%token <u> DT_PARSEOP_STRING_DATA
%token <u> DT_PARSEOP_LINE_CONTINUATION
%type <u> Data
%type <u> Datum
%type <u> MultiLineData
%type <u> MultiLineDataList

%%

Table
:
    FieldList { }
;

FieldList

```



```

: Field FieldList
| Field
;

Field
: DT_PARSEOP_LABEL ':' Data { DtCreateField ($1, $3, DtLabelByteOffset); }
;

Data
: MultiLineDataList { $$ = $1; }
| Datum { $$ = $1; }
| Datum MultiLineDataList { $$ = $1; } /* combine the string with strcat */
;

MultiLineDataList
: MultiLineDataList MultiLineData { $$ = DtCreateTableUnit (AcpiUtStrcat(AcpiUtStrcat($1->Value, " "), $2->Value), $1->Line, $1->Column); } /* combine the strings with strcat */
| MultiLineData { $$ = $1; }
;

MultiLineData
: DT_PARSEOP_LINE_CONTINUATION Datum { DbgPrint (ASL_PARSE_OUTPUT, "line continuation
detected\n"); $$ = $2; }
;

Datum
: DT_PARSEOP_DATA {
    DbgPrint (ASL_PARSE_OUTPUT, "parser data: [%s]\n", DtCompilerParserIval.s);
    $$ = DtCreateTableUnit (AcpiUtStrdup(DtCompilerParserIval.s), DtTokenFirstLine,
DtTokenFirstColumn);

}
| DT_PARSEOP_STRING_DATA {
    DbgPrint (ASL_PARSE_OUTPUT, "parser string data: [%s]\n", DtCompilerParserIval.s);
    $$ = DtCreateTableUnit (AcpiUtStrdup(DtCompilerParserIval.s), DtTokenFirstLine,
DtTokenFirstColumn);

}
;

%%

/*
* Local support functions, including parser entry point
*/
/*****
*

```



\* FUNCTION: DtCompilerParsererror

\*

\* PARAMETERS: Message - Parser-generated error message

\*

\* RETURN: None

\*

\* DESCRIPTION: Handler for parser errors

\*

\*\*\*\*\*/

void

DtCompilerParsererror (

char const \*Message)

{

DtError (ASL\_ERROR, ASL\_MSG\_SYNTAX,  
AslGbl\_CurrentField, (char \*) Message);

}

int

DtCompilerParserwrap(void)

{

return (1);

}

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/dtcompilerparser.y

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\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-  
 20210105/source/os\_specific/service\_layers/osgendbg.c

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\*

\* Module Name: aslrules.y - Main Bison/Yacc production rules

\* - Keep this file synched with the

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 \*\*\*\*\*/

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\*\*\*\*\*/

')

/\*\*\*\*\*\*

\*  
\* ASL Root and Secondary Terms

\*\*\*\*\*/

/\*

\* Root term. Allow multiple #line directives before the definition block  
\* to handle output from preprocessors

\*/

AslCode

: DefinitionBlockList { \$<n>\$ = TrLinkOpChildren (

TrCreateLeafOp (PARSEOP\_AS\_L\_CODE),1, \$1);}

| error { YYABORT; \$\$ = NULL;}

;

/\*

\* Note concerning support for "module-level code".

\*

\* ACPI 1.0 allowed Type1 and Type2 executable opcodes outside of control  
\* methods (the so-called module-level code.) This support was explicitly  
\* removed in ACPI 2.0, but this type of code continues to be created by  
\* BIOS vendors. In order to support the disassembly and recompilation of  
\* such code (and the porting of ASL code to iASL), iASL supports this  
\* code in violation of the current ACPI specification.

\*

\* The grammar change to support module-level code is to revert the  
\* {ObjectList} portion of the DefinitionBlockTerm in ACPI 2.0 to the  
\* original use of {TermList} instead (see below.) This allows the use  
\* of Type1 and Type2 opcodes at module level.

\*

\* 04/2016: The module-level code is now allowed in the following terms:



\* DeviceTerm, PowerResTerm, ProcessorTerm, ScopeTerm, ThermalZoneTerm.

\*

The ObjectList term is obsolete and has been removed.

\*/

DefinitionBlockTerm

```
: PARSEOP_DEFINITION_BLOCK
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_DEFINITION_BLOCK);
COMMENT_CAPTURE_OFF;}
    String ','
    String ','
    ByteConst ','
    String ','
    String ','
    DWordConst
    PARSEOP_CLOSE_PAREN      {TrSetOpIntegerWidth ($6,$8);
                                TrSetOpEndLineNumber ($<n>3); COMMENT_CAPTURE_ON;}
    {' TermList '}'          {$$ = TrLinkOpChildren ($<n>3,7,
                                $4,$6,$8,$10,$12,$14,$18);}
;
;
```

DefinitionBlockList

```
: DefinitionBlockTerm
| DefinitionBlockTerm
    DefinitionBlockList      {$$ = TrLinkPeerOps (2, $1,$2);}
;
;
```

/\*\*\*\*\*\* Basic ASCII identifiers \*\*\*\*\*/

/\* Allow IO, DMA, IRQ Resource macro and FOR macro names to also be used as identifiers \*/

NameString

```
: NameSeg
    {}
    | PARSEOP_NAMESTRING      {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING,
(ACPI_NATIVE_INT) $1);}
    | PARSEOP_IO              {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING, (ACPI_NATIVE_INT)
"IO");}
    | PARSEOP_DMA              {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING,
(ACPI_NATIVE_INT) "DMA");}
    | PARSEOP_IRQ              {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING, (ACPI_NATIVE_INT)
"IRQ");}
    | PARSEOP_FOR              {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING, (ACPI_NATIVE_INT)
"FOR");}
;
/*
;
```

NameSeg

```
: PARSEOP_NAMESEG          {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESEG,
```



```

(ACPI_NATIVE_INT)
    TrNormalizeNameSeg ($1));}

;
*/

NameSeg
: PARSEOP_NAMESEG      {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESEG,
    (ACPI_NATIVE_INT) AslCompilerIval.s);}

;

/***** Fundamental argument/statement types *****/

Term
: Object                {}
| Type1Opcode           {}
| Type2Opcode           {}
| Type2IntegerOpcode    {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| Type2StringOpcode     {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| Type2BufferOpcode     {}
| Type2BufferOrStringOpcode {}
| error                 {$$ = AslDoError(); yyclearin;}

;

SuperName
: SimpleName            {}
| DebugTerm             {}
| Type6Opcode           {}

;

Target
:                       {$$ = TrCreateNullTargetOp ();} /* Placeholder is a ZeroOp object */
| ','                   {$$ = TrCreateNullTargetOp ();} /* Placeholder is a ZeroOp object */
| ',' SuperName         {$$ = TrSetOpFlags ($2, OP_IS_TARGET);}

;

RequiredTarget
: ',' SuperName         {$$ = TrSetOpFlags ($2, OP_IS_TARGET);}

;

TermArg
: SimpleName            {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
| Type2Opcode           {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
| DataObject            {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
| PARSEOP_OPEN_PAREN
    TermArg
    PARSEOP_CLOSE_PAREN  {$$ = TrSetOpFlags ($2, OP_IS_TERM_ARG);}

;

```



/\*

NOTE: Removed from TermArg due to reduce/reduce conflicts:

```
| Type2IntegerOpcode      {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
| Type2StringOpcode       {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
| Type2BufferOpcode       {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
| Type2BufferOrStringOpcode {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
```

\*/

MethodInvocationTerm

: NameString

```
    PARSEOP_OPEN_PAREN      {TrSetOpIntegerValue (PARSEOP_METHODCALL, $1);
```

COMMENT\_CAPTURE\_OFF;}

ArgList

```
    PARSEOP_CLOSE_PAREN     {$$ = TrLinkChildOp ($1,$4); COMMENT_CAPTURE_ON;}
```

;

/\* OptionalCount

must appear before ByteList or an incorrect reduction will result \*/

OptionalCount

```
:          {$$ = TrCreateLeafOp (PARSEOP_ONES);}      /* Placeholder is a OnesOp object */
```

```
| ','      {$$ = TrCreateLeafOp (PARSEOP_ONES);}      /* Placeholder is a OnesOp object */
```

```
| ',' TermArg      {$$ = $2;}
```

;

/\*

\* Data count for buffers and packages (byte count for buffers,

\* element count for packages).

\*/

OptionalDataCount

/\* Legacy ASL \*/

```
:          {$$ = NULL;}
```

```
| PARSEOP_OPEN_PAREN
```

TermArg

```
    PARSEOP_CLOSE_PAREN     {$$ = $2;}
```

```
| PARSEOP_OPEN_PAREN
```

```
    PARSEOP_CLOSE_PAREN     {$$ = NULL;}
```

/\* C-style (ASL+) -- adds equals term \*/

```
| PARSEOP_EXP_EQUALS      {$$ = NULL;}
```

```
| PARSEOP_OPEN_PAREN
```

TermArg

```
    PARSEOP_CLOSE_PAREN
```



```

    PARSEOP_EXP_EQUALS      {$$ = $2;}

| PARSEOP_OPEN_PAREN
  PARSEOP_CLOSE_PAREN
  String
  PARSEOP_EXP_EQUALS      {$$ = NULL;}
;

/***** List Terms *****/

/* ACPI 3.0 -- allow semicolons between terms */

TermList
:
  {$$ = NULL;}
| TermList Term
  {$$ = TrLinkPeerOp (
    TrSetOpFlags ($1, OP_RESULT_NOT_USED),$2);}
| TermList Term ';'
  {$$ = TrLinkPeerOp (
    TrSetOpFlags ($1, OP_RESULT_NOT_USED),$2);}
| TermList ';' Term
  {$$ = TrLinkPeerOp (
    TrSetOpFlags ($1, OP_RESULT_NOT_USED),$3);}
| TermList ';' Term ';'
  {$$ = TrLinkPeerOp (
    TrSetOpFlags ($1, OP_RESULT_NOT_USED),$3);}
;

ArgList
:
  {$$ = NULL;}
| TermArg
| ArgList ';'
/* Allows a trailing comma at list end */
| ArgList
','
  TermArg
  {$$ = TrLinkPeerOp ($1,$3);}
;

ByteList
:
  {$$ = NULL;}
| ByteConstExpr
| ByteList ','
/* Allows a trailing comma at list end */
| ByteList ','
  ByteConstExpr
  {$$ = TrLinkPeerOp ($1,$3);}
;

DWordList
:
  {$$ = NULL;}
| DWordConstExpr
| DWordList ','
/* Allows a trailing comma at list end */
| DWordList ','
  DWordConstExpr
  {$$ = TrLinkPeerOp ($1,$3);}

```



;

#### FieldUnitList

```
:                               {$$ = NULL;}
| FieldUnit
| FieldUnitList ','             /* Allows a trailing comma at list end */
| FieldUnitList ' '
  FieldUnit                     {$$ = TrLinkPeerOp ($1,$3);}
;
```

#### FieldUnit

```
: FieldUnitEntry               {}
| OffsetTerm                   {}
| AccessAsTerm                 {}
| ConnectionTerm               {}
```

;

#### FieldUnitEntry

```
: ' ' AmlPackageLengthTerm     {$$ = TrCreateOp (PARSEOP_RESERVED_BYTES,1,$2);}
| NameSeg ' '
  AmlPackageLengthTerm         {$$ = TrLinkChildOp ($1,$3);}
;
```

#### Object

```
: CompilerDirective            {}
| NamedObject                  {}
| NameSpaceModifier            {}
/* | StructureTerm              {} */
;
```

#### PackageList

```
:                               {$$ = NULL;}
| PackageElement
| PackageList ','              /* Allows a trailing comma at list end */
| PackageList ' '
  PackageElement               {$$ = TrLinkPeerOp ($1,$3);}
;
```

#### PackageElement

```
: DataObject                   {}
| NameString                   {}
;
```

/\* Rules for specifying the type of one method argument or return value \*/

#### ParameterTypePackage

```
:                               {$$ = NULL;}
;
```



```

| ObjectTypeKeyword      {$$ = $1;}
| ParameterTypePackage ','
  ObjectTypeKeyword      {$$ = TrLinkPeerOps
(2,$1,$3);}
;

```

ParameterTypePackageList

```

:                {$$ = NULL;}
| ObjectTypeKeyword      {$$ = TrLinkOpChildren (
  TrCreateLeafOp (PARSEOP_DEFAULT_ARG),1,$1);}
| '{' ParameterTypePackage '}' {$$ = TrLinkOpChildren (
  TrCreateLeafOp (PARSEOP_DEFAULT_ARG),1,$2);}
;

```

OptionalParameterTypePackage

```

:                {$$ = NULL;}
| ',' ParameterTypePackageList {$$ = $2;}
;

```

/\* Rules for specifying the types for method arguments \*/

ParameterTypesPackage

```

: ParameterTypePackageList    {$$ = $1;}
| ParameterTypesPackage ','
  ParameterTypePackageList    {$$ = TrLinkPeerOps (2,$1,$3);}
;

```

ParameterTypesPackageList

```

:                {$$ = NULL;}
| ObjectTypeKeyword      {$$ = TrLinkOpChildren (
  TrCreateLeafOp (PARSEOP_DEFAULT_ARG),1,$1);}
| '{'
ParameterTypesPackage '}' {$$ = TrLinkOpChildren (
  TrCreateLeafOp (PARSEOP_DEFAULT_ARG),1,$2);}
;

```

OptionalParameterTypesPackage

```

:                {$$ = NULL;}
| ',' ParameterTypesPackageList {$$ = $2;}
;

```

/\*

\* Case-Default list; allow only one Default term and unlimited Case terms

\*/

CaseDefaultTermList

```

:                {$$ = NULL;}
| CaseTerm      {}

```



```

| DefaultTerm          {}
| CaseDefaultTermList
  CaseTerm             {$$ = TrLinkPeerOp ($1,$2);}
| CaseDefaultTermList
  DefaultTerm          {$$ = TrLinkPeerOp ($1,$2);}

/* Original - attempts to force zero or one default term within the switch */

/*
CaseDefaultTermList
:
    {$$ = NULL;}
| CaseTermList
  DefaultTerm
  CaseTermList         {$$ = TrLinkPeerOp ($1,TrLinkPeerOp ($2, $3));}
| CaseTermList
  CaseTerm
    {$$ = TrLinkPeerOp ($1,$2);}
;

CaseTermList
:
    {$$ = NULL;}
| CaseTerm             {}
| CaseTermList
  CaseTerm             {$$ = TrLinkPeerOp ($1,$2);}
;
*/

/*****
*
* ASL Data and Constant Terms
*
*****/

DataObject
: BufferData           {}
| PackageData          {}
| IntegerData          {}
| StringData           {}
;

BufferData
: Type5Opcode          {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| Type2BufferOrStringOpcode {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| Type2BufferOpcode     {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| BufferTerm            {}
;

```



```

PackageData
: PackageTerm      {}
;

IntegerData
: Type2IntegerOpcode    {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| Type3Opcode           {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| Integer               {}
| ConstTerm            {}
;

StringData
: Type2StringOpcode     {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| String               {}
;

StringLiteral
: String               {}
;

ByteConst
: Integer              {$$ = TrSetOpIntegerValue (PARSEOP_BYTECONST, $1);}
;

WordConst
: Integer              {$$ = TrSetOpIntegerValue (PARSEOP_WORDCONST, $1);}
;

DWordConst
: Integer              {$$ = TrSetOpIntegerValue (PARSEOP_DWORDCONST, $1);}
;

QWordConst
: Integer              {$$ = TrSetOpIntegerValue (PARSEOP_QWORDCONST, $1);}
;

/*
* The OP_COMPILE_TIME_CONST flag in the following constant expressions
* enables compile-time constant folding
* to reduce the Type3Opcodes/Type2IntegerOpcodes
* to simple integers. It is an error if these types of expressions cannot be
* reduced, since the AML grammar for ****ConstExpr requires a simple constant.
* Note: The required byte length of the constant is passed through to the
* constant folding code in the node AmlLength field.
*/

ByteConstExpr
: Type3Opcode          {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                        TrSetOpAmlLength ($1, 1);}

```



```

| Type2IntegerOpcode      {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                           TrSetOpAmlLength ($1, 1);}
| ConstExprTerm           {$$ = TrSetOpIntegerValue (PARSEOP_BYTECONST, $1);}
| ByteConst               {}
;

WordConstExpr
: Type3Opcode             {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                           TrSetOpAmlLength ($1, 2);}
| Type2IntegerOpcode      {$$ = TrSetOpFlags
($1, OP_COMPILE_TIME_CONST);
                           TrSetOpAmlLength ($1, 2);}
| ConstExprTerm           {$$ = TrSetOpIntegerValue (PARSEOP_WORDCONST, $1);}
| WordConst               {}
;

DWordConstExpr
: Type3Opcode             {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                           TrSetOpAmlLength ($1, 4);}
| Type2IntegerOpcode      {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                           TrSetOpAmlLength ($1, 4);}
| ConstExprTerm           {$$ = TrSetOpIntegerValue (PARSEOP_DWORDCONST, $1);}
| DWordConst              {}
;

QWordConstExpr
: Type3Opcode             {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                           TrSetOpAmlLength ($1, 8);}
| Type2IntegerOpcode      {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                           TrSetOpAmlLength
($1, 8);}
| ConstExprTerm           {$$ = TrSetOpIntegerValue (PARSEOP_QWORDCONST, $1);}
| QWordConst              {}
;

ConstTerm
: ConstExprTerm           {}
| PARSEOP_REVISION        {$$ = TrCreateLeafOp (PARSEOP_REVISION);}
;

ConstExprTerm
: PARSEOP_ZERO            {$$ = TrCreateValuedLeafOp (PARSEOP_ZERO, 0);}
| PARSEOP_ONE             {$$ = TrCreateValuedLeafOp (PARSEOP_ONE, 1);}
| PARSEOP_ONES            {$$ = TrCreateValuedLeafOp (PARSEOP_ONES, ACPI_UINT64_MAX);}
| PARSEOP__DATE__         {$$ = TrCreateConstantLeafOp (PARSEOP__DATE__);}
| PARSEOP__FILE__         {$$ = TrCreateConstantLeafOp (PARSEOP__FILE__);}
| PARSEOP__LINE__         {$$ = TrCreateConstantLeafOp (PARSEOP__LINE__);}
| PARSEOP__PATH__         {$$ = TrCreateConstantLeafOp (PARSEOP__PATH__);}

```



```

| PARSEOP___METHOD___      {$$ = TrCreateConstantLeafOp (PARSEOP___METHOD___);}
;

Integer
: PARSEOP_INTEGER          {$$ = TrCreateValuedLeafOp (PARSEOP_INTEGER,
                                                         AslCompilerIval.i);}
;

String
: PARSEOP_STRING_LITERAL   {$$ = TrCreateValuedLeafOp (PARSEOP_STRING_LITERAL,
                                                         (ACPI_NATIVE_INT) AslCompilerIval.s);}
;

/*****
*
* ASL Opcode Terms
*
*****/

CompilerDirective
: IncludeTerm              {}
| IncludeEndTerm           {}
| ExternalTerm             {}
;

NamedObject
: BankFieldTerm            {}
| CreateBitFieldTerm       {}
| CreateByteFieldTerm      {}
| CreateDWordFieldTerm     {}
| CreateFieldTerm          {}
| CreateQWordFieldTerm     {}
| CreateWordFieldTerm      {}
| DataRegionTerm           {}
| DeviceTerm               {}
| EventTerm                {}
| FieldTerm                {}
| FunctionTerm             {}
| IndexFieldTerm           {}
| MethodTerm               {}
| MutexTerm               {}
| OpRegionTerm             {}
| PowerResTerm             {}
| ProcessorTerm            {}
| ThermalZoneTerm          {}
;

```



```

NamespaceModifier
: AliasTerm      {}
| NameTerm       {}
/* | NameTermAsIPlus  {} */
| ScopeTerm      {}
;

SimpleName
: NameString     {}
| LocalTerm      {}
| ArgTerm        {}
;

/* For ObjectType(), SuperName except for MethodInvocationTerm */

ObjectTypeSource
: SimpleName     {}
| DebugTerm      {}
| RefOfTerm      {}
| DerefOfTerm    {}
| IndexTerm      {}
| IndexExpTerm   {}
;

/* For DeRefOf(), SuperName except for DerefOf and Debug */

DerefOfSource
: SimpleName     {}
| RefOfTerm      {}
| DerefOfTerm    {}
| IndexTerm      {}
| IndexExpTerm   {}
| StoreTerm      {}
| EqualsTerm     {}
| MethodInvocationTerm {}
;

/* For RefOf(), SuperName except for RefOf and MethodInvocationTerm */

RefOfSource
: SimpleName     {}
| DebugTerm      {}
| DerefOfTerm    {}
| IndexTerm      {}
| IndexExpTerm   {}
;

```



/\* For CondRefOf(), SuperName except for RefOf and MethodInvocationTerm \*/

CondRefOfSource

: SimpleName            {}  
| DebugTerm            {}  
| DerefOfTerm           {}  
| IndexTerm            {}  
| IndexExpTerm         {}  
;

/\*

\* Opcode types, as defined in the ACPI specification

\*/

Type1Opcode

: BreakTerm            {}  
| BreakPointTerm       {}  
| ContinueTerm         {}  
| FatalTerm            {}  
| ForTerm              {}  
| ElseIfTerm           {}  
| LoadTerm            {}  
| NoOpTerm            {}  
| NotifyTerm           {}  
| ReleaseTerm          {}  
| ResetTerm            {}  
| ReturnTerm           {}  
| SignalTerm           {}  
| SleepTerm            {}  
| StallTerm            {}  
| SwitchTerm           {}  
| UnloadTerm           {}  
| WhileTerm            {}  
;

Type2Opcode

: AcquireTerm          {}  
| CondRefOfTerm        {}  
| CopyObjectTerm       {}  
| DerefOfTerm          {}  
|

ObjectTypeTerm        {}  
| RefOfTerm            {}  
| SizeOfTerm           {}  
| StoreTerm            {}  
| EqualsTerm           {}  
| TimerTerm            {}  
| WaitTerm             {}



```

| MethodInvocationTerm      {}
;

/*
* Type 3/4/5 opcodes
*/
Type2IntegerOpcode          /* "Type3" opcodes */
: Expression                 {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| AddTerm                    {}
| AndTerm                    {}
| DecTerm                    {}
| DivideTerm                 {}
| FindSetLeftBitTerm        {}
| FindSetRightBitTerm       {}
| FromBCDTerm                {}
| IncTerm                    {}
| IndexTerm                  {}
/* | StructureIndexTerm      {} */
/* | StructurePointerTerm    {} */
| LAndTerm                   {}
| LEqualTerm                 {}
{}
| LGreaterTerm               {}
| LGreaterEqualTerm          {}
| LLessTerm                   {}
| LLessEqualTerm             {}
| LNotTerm                   {}
| LNotEqualTerm              {}
| LoadTableTerm              {}
| LOrTerm                    {}
| MatchTerm                  {}
| ModTerm                    {}
| MultiplyTerm                {}
| NAndTerm                    {}
| NOrTerm                    {}
| NotTerm                    {}
| OrTerm                     {}
| ShiftLeftTerm              {}
| ShiftRightTerm             {}
| SubtractTerm               {}
| ToBCDTerm                  {}
| ToIntegerTerm              {}
| XOrTerm                    {}
;

Type2StringOpcode           /* "Type4" Opcodes */
: ToDecimalStringTerm        {}
| ToHexStringTerm            {}

```



```

    | ToStringTerm
    {}
    ;

Type2BufferOpcode          /* "Type5" Opcodes */
: ToBufferTerm             {}
| ConcatResTerm            {}
;

Type2BufferOrStringOpcode
: ConcatTerm               {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
| PrintfTerm               {}
| FprintfTerm              {}
| MidTerm                  {}
;

/*
* A type 3 opcode evaluates to an Integer and cannot have a destination operand
*/
Type3Opcode
: EISAIDTerm               {}
;

/* Obsolete
Type4Opcode
: ConcatTerm               {}
| ToDecimalStringTerm      {}
| ToHexStringTerm          {}
| MidTerm                  {}
| ToStringTerm             {}
;
*/

/* Type 5 opcodes are a subset of Type2 opcodes, and return a constant */
Type5Opcode
: ResourceTemplateTerm     {}
| UnicodeTerm              {}
| ToPLDTerm                {}
| ToUUIDTerm
  {}
;

Type6Opcode
: RefOfTerm                {}
| DerefOfTerm              {}
| IndexTerm                {}
| IndexExpTerm             {}

```



```

/* | StructureIndexTerm      {} */
/* | StructurePointerTerm    {} */
/* | MethodInvocationTerm     {} */
;

/*****
*
* ASL Helper Terms
*
*****/

AmlPackageLengthTerm
: Integer      {$$ = TrSetOpIntegerValue (PARSEOP_PACKAGE_LENGTH,
                                           (ACPI_PARSE_OBJECT *) $1);}
;

NameStringItem
: ',' NameString      {$$ = $2;}
| ',' error           {$$ = AslDoError (); yyclearin;}
;

TermArgItem
: ',' TermArg         {$$ = $2;}
| ',' error           {$$ = AslDoError (); yyclearin;}
;

OptionalReference
:
    {$$ = TrCreateLeafOp (PARSEOP_ZERO);} /* Placeholder is a ZeroOp object */
| ','      {$$ = TrCreateLeafOp (PARSEOP_ZERO);} /* Placeholder is a ZeroOp object */
| ',' TermArg      {$$ = $2;}
;

OptionalReturnArg
:
    {$$ = TrSetOpFlags (TrCreateLeafOp (PARSEOP_ZERO),
                        OP_IS_NULL_RETURN);} /* Placeholder is a ZeroOp object */
| TermArg      {$$ = $1;}
;

OptionalSerializeRuleKeyword
:
    {$$ = NULL;}
| ','      {$$ = NULL;}
| ',' SerializeRuleKeyword    {$$ = $2;}
;

OptionalTermArg
:
    {$$ = TrCreateLeafOp (PARSEOP_DEFAULT_ARG);}

```



```
| TermArg          {$$ = $1;}
;

OptionalWordConst
:
| WordConst        {$$ = $1;}
;
```

Found in path(s):

```
*
/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
20210105/source/compiler/aslrules.y
```

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*/

//
//
// Grammar.asl - Minimally exercises most ASL constructs
```



```
//
// NOTE -- use: iasl -f -of grammar.asl to compile
//
//      This 1) Ignores errors (checks compiler error handling)
//      2) Disables constant folding
//
//
//
/*****

Compilation should look like
this:

C:\acpica\tests\misc>iasl -f -of grammar.asl

Intel ACPI Component Architecture
ASL Optimizing Compiler version 20090422 [Apr 22 2009]
Copyright (C) 2000 - 2009 Intel Corporation
Supports ACPI Specification Revision 3.0a

grammar.asl 187:  Name (_NPK, Package (8)
Warning 1098 -      ^ Unknown reserved name (_NPK)

grammar.asl 510:  NAME (ESC1, "abcdefg\x00hijklmn")
Warning 1042 -      ^ Invalid Hex/Octal Escape - Non-ASCII or NULL

grammar.asl 511:  NAME (ESC2, "abcdefg\000hijklmn")
Warning 1042 -      ^ Invalid Hex/Octal Escape - Non-ASCII or NULL

grammar.asl 601:  Method (RCIV, 1)
Warning 1087 -      ^ Not all control paths return a value (RCIV)

grammar.asl 608:  RCIV (Subtract (Arg0, 1))
Remark 5073 -      ^ Recursive method call (RCIV)

grammar.asl 937:  Method (_ERR, 2)
Warning 1077 -      ^ Reserved method has too few arguments (_ERR
requires 3)

grammar.asl 1377:  Store (0x1234567887654321, QWD2)
Warning 1032 -      ^ 64-bit integer in 32-bit table, truncating

grammar.asl 1379:  if (LNotEqual (Local0, 0x1234567887654321))
Warning 1032 -      64-bit integer in 32-bit table, truncating ^

grammar.asl 1459:  SizeOf (BUFO)
Warning 1105 -      ^ Result is not used, operator has no effect

grammar.asl 1485:  Acquire (MTX2, 1)
```



Warning 1104 - ^ Possible operator timeout is ignored

grammar.asl 1633: Add (Local0, Local1)

Warning 1105 - ^ Result is not used, operator has no effect

grammar.asl 1804: Method (COND)

Warning 1087 - ^ Not all control paths return a value (COND)

grammar.asl 6010: Name (\_HID, "\*PNP0A06")

Error 4001 - ^ String must be entirely alphanumeric (\*PNP0A06)

grammar.asl 6461:

Name (\_CRS, Buffer(26) {"\\_SB\\_PCI2\\_CRS....."})

Warning 1038 - Invalid or unknown escape sequence ^

grammar.asl 6800: And (Local0, 1, Local0) // Local0 &= 1

Error 4050 - ^ Method local variable is not initialized (Local0)

grammar.asl 6886: Name (\_HID, "\*PNP0C0A") // Control Method Battey ID

Error 4001 - ^ String must be entirely alphanumeric (\*PNP0C0A)

ASL Input: grammar.asl - 10254 lines, 322162 bytes, 4810 keywords

AML Output: grammar.aml - 43392 bytes, 669 named objects, 4141 executable opcodes

Compilation complete. 3 Errors, 12 Warnings, 1 Remarks, 1101 Optimizations

\*\*\*\*\*  
\*\*\*\*\*/

DefinitionBlock (

"grammar.aml", //Output filename

"DSDT", //Signature

0x01, //DSDT Revision ---> 32-bit table

"Intel", //OEMID

"GRMTEST", //TABLE ID

0x20090511 //OEM Revision

)

{

External (\ABCD, UnknownObj)

/\* Device with \_STA and \_INI \*/

Device (A1)

{

Method (\_STA)



```

    {
        Return (0x0F)
    }

    Method (_INI)
    {
        Return
    }
}

/* Device with no _STA, has _INI */

Device (A2)
{
    Method (_INI)
    {
        Return
    }
}

/* Device with _STA, no _INI */

Device (A3)
{
    Method (_STA)
    {
        Return (0x0F)
    }
}

/* Device with _STA and _INI, but not present */

Device (A4)
{
    Method (_STA)
    {
        Return (Zero)
    }

    Method (_INI)
    {
        Return
    }
}

/* Resource descriptors */

```



Device (IRES)

```
{
  Name (PRT0, ResourceTemplate ()
  {
    IRQ (Edge, ActiveHigh, Exclusive) {3,4,5,6,7,9,10,11,14,15}

    StartDependentFn (1,1)
    {
      IRQNoFlags () {0,1,2}
    }
    EndDependentFn ()
  })
```

Method (\_CRS, 0, NotSerialized)

```
{
  Store ("_CRS:", Debug)
  Store (PRT0, Debug)
  Return (PRT0)
}
```

Method (\_SRS, 1, Serialized)

```
{
  Store ("_SRS:", Debug)
  Store (Arg0, Debug)
  Return (Zero)
}
}
```

Name (\_NPK, Package ())

```
{
  0x1111,
  0x2222,
  0x3333,
  0x4444
})
```

Device (RES)

```
{
  Name (_PRT, Package (0x04)
  {
    Package (0x04)
    {
      0x0002FFFF,
      Zero,
      Zero,
      Zero
    },

```



```

Package (0x04)
{
    0x0002FFFF,
    One,
    Zero,
    Zero
},

Package (0x04)
{
    0x000AFFFF,
    Zero,

Zero,
    Zero
},

Package (0x04)
{
    0x000BFFFF,
    Zero,
    Zero,
    Zero
}
}))

Method (_CRS, 0, Serialized)
{
    Name (PRT0, ResourceTemplate ()
    {
        WordBusNumber (ResourceConsumer, MinFixed, MaxFixed, SubDecode,
            0x0000, // Address Space Granularity
            0xFFF2, // Address Range Minimum
            0xFFF3, // Address Range Maximum
            0x0032, // Address Translation Offset
            0x0002,,,)
        WordBusNumber (ResourceProducer, MinFixed, MaxFixed, PosDecode,
            0x0000, // Address Space Granularity
            0x0000, // Address Range Minimum
            0x00FF, // Address Range Maximum
            0x0000, // Address Translation Offset
            0x0100,,,)
        WordSpace (0xC3,
ResourceConsumer, PosDecode, MinFixed, MaxFixed, 0xA5,
            0x0000, // Address Space Granularity
            0xA000, // Address Range Minimum
            0xBFFF, // Address Range Maximum

```



```

    0x0000, // Address Translation Offset
    0x2000,,,)
IO (Decode16, 0x0CF8, 0x0CFF, 0x01, 0x08)
WordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
    0x0000, // Address Space Granularity
    0x0000, // Address Range Minimum
    0x0CF7, // Address Range Maximum
    0x0000, // Address Translation Offset
    0x0CF8,,,)
    , TypeStatic)
WordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
    0x0000, // Address Space Granularity
    0x0D00, // Address Range Minimum
    0xFFFF, // Address Range Maximum

0x0000, // Address Translation Offset
    0xF300,,,)
    , TypeStatic)
DWordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
    0x00000000, // Address Space Granularity
    0x00000000, // Address Range Minimum
    0x00000CF7, // Address Range Maximum
    0x00000000, // Address Translation Offset
    0x00000CF8,,,)
    , TypeStatic)
DWordMemory (ResourceProducer, PosDecode, MinFixed, MaxFixed, Cacheable, ReadWrite,
    0x00000000, // Address Space Granularity
    0x000C8000, // Address Range Minimum
    0x000EFFFF, // Address Range Maximum
    0x00000000, // Address Translation Offset
    0x00028000,,,)
    , AddressRangeMemory, TypeStatic)
DWordSpace (0xC3, ResourceConsumer, PosDecode, MinFixed,
MaxFixed, 0xA5,
    0x00000000, // Address Space Granularity
    0x000C8000, // Address Range Minimum
    0x000EFFFF, // Address Range Maximum
    0x00000000, // Address Translation Offset
    0x00028000,,,)
QWordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
    0x0000000000000000, // Address Space Granularity
    0x0000000000000000, // Address Range Minimum
    0x0000000000000CF7, // Address Range Maximum
    0x0000000000000000, // Address Translation Offset
    0x0000000000000CF8, 0x44, "This is a ResouceSource string",
    , TypeStatic)
QWordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
    0x0000000000000000, // Address Space Granularity

```



```

0x0000000000000000, // Address Range Minimum

0x0000000000000CF7, // Address Range Maximum
    0x0000000000000000, // Address Translation Offset
    0x0000000000000CF8,,
    , TypeStatic)
QWordMemory (ResourceProducer, PosDecode, MinFixed, MaxFixed, Cacheable, ReadWrite,
    0x0000000000000000, // Address Space Granularity
    0x0000000000100000, // Address Range Minimum
    0x00000000FFDFFFFFFF, // Address Range Maximum
    0x0000000000000000, // Address Translation Offset
    0x00000000FFD00000,,
    , AddressRangeMemory, TypeStatic)
QWordSpace (0xC3, ResourceConsumer, PosDecode, MinFixed, MaxFixed, 0xA5,
    0x0000000000000000, // Address Space Granularity
    0x0000000000000000, // Address Range Minimum
    0x0000000000000CF7, // Address Range Maximum
    0x0000000000000000, // Address Translation
Offset
    0x0000000000000CF8,,)
ExtendedIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
    0x0000000000000000, // Address Space Granularity
    0x0000000000000000, // Address Range Minimum
    0x0000000000000CF7, // Address Range Maximum
    0x0000000000000000, // Address Translation Offset
    0x0000000000000CF8, // Address Length
    0x0000000000000000, // Type Specific Attributes
    , TypeStatic)
ExtendedMemory (ResourceProducer, PosDecode, MinFixed, MaxFixed, Cacheable, ReadWrite,
    0x0000000000000000, // Address Space Granularity
    0x0000000000100000, // Address Range Minimum
    0x00000000FFDFFFFFFF, // Address Range Maximum
    0x0000000000000000, // Address Translation Offset
    0x00000000FFD00000, // Address
Length
    0x0000000000000000, // Type Specific Attributes
    , AddressRangeMemory, TypeStatic)
ExtendedSpace (0xC3, ResourceProducer, PosDecode, MinFixed, MaxFixed, 0xA3,
    0x0000000000000000, // Address Space Granularity
    0x0000000000100000, // Address Range Minimum
    0x00000000FFDFFFFFFF, // Address Range Maximum
    0x0000000000000000, // Address Translation Offset
    0x00000000FFD00000, // Address Length
    0x0000000000000000) // Type Specific Attributes
IO (Decode16, 0x0010, 0x0020, 0x01, 0x10)
IO (Decode16, 0x0090, 0x00A0, 0x01, 0x10)
FixedIO (0x0061, 0x01)
IRQNoFlags () {2}

```



```

DMA (Compatibility, BusMaster, Transfer8_16) {4}
DMA (Compatibility, BusMaster, Transfer8) {2,5,7}
Memory32Fixed (ReadWrite, 0x00100000, 0x00000000)
Memory32Fixed (ReadOnly, 0xFFFFE0000, 0x00020000)
Memory32 (ReadOnly, 0x00020000, 0xFFFFE0000, 0x00000004, 0x00000200)
Memory24 (ReadOnly, 0x1111, 0x2222, 0x0004, 0x0200)
Interrupt (ResourceConsumer, Level, ActiveLow, Exclusive, 0xE, "\\_SB_.TEST")
{
    0x00000E01,
}
Interrupt (ResourceConsumer, Edge, ActiveHigh, Exclusive, 0x6, "xxxx")
{
    0x00000601,
    0x00000003,
    0x00000002,
    0x00000001,
}
Interrupt (ResourceProducer, Edge, ActiveHigh, Exclusive)
{
    0xFFFF0000,
    0x00000003,
    0x00000002,
    0x00000001,
    0x00000005,
    0x00000007,
    0x00000009,
}
VendorShort () {0x01,
0x02, 0x03}
VendorLong ()
{
    0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08,
    0x09
}
Register (SystemIO, 0x08, 0x00, 0x00000000000000B2, , R000)
Register (SystemMemory, 0x08, 0x00, 0x00000000000000B2)
StartDependentFnNoPri ()
{
    IRQNoFlags () {0,1,2}
    IRQ (Level, ActiveLow, Shared) {3,4,5,6,7,9,10,11,14,15}
}
EndDependentFn ()
})
CreateWordField (PRT0, 0x08, BMIN)
CreateByteField (PRT0, R000._ASZ, RSIZ)
Store (0x03, BMIN)
Return (PRT0)
}

```



```

Method (_PRS, 0, Serialized)
{
    Name (BUF0, ResourceTemplate ()
    {
        StartDependentFn (0x01, 0x02)
        {
            IO (Decode16, 0x03D8, 0x03F8, 0x01, 0x08)
            IRQNoFlags ()
{4}
        }
        StartDependentFn (0x02, 0x01)
        {
            IO (Decode16, 0x03D8, 0x03E8, 0x01, 0x08)
            IRQNoFlags () {4}
        }
        StartDependentFn (0x00, 0x02)
        {
            IO (Decode16, 0x02E8, 0x02F8, 0x01, 0x08)
            IRQNoFlags () {3}
        }
        StartDependentFn (0x00, 0x02)
        {
            IO (Decode16, 0x02D8, 0x02E8, 0x01, 0x08)
            IRQNoFlags () {3}
        }
        StartDependentFn (0x02, 0x00)
        {
            IO (Decode16, 0x0100, 0x03F8, 0x08, 0x08)
            IRQNoFlags () {1,3,4,5,6,7,8,10,11,12,13,14,15}
        }
        EndDependentFn ()
    })
    Return (BUF0)
}

```

```

Method (_SRS, 1, Serialized)
{
    Return (Zero)
}
}

```

```

Name(\_S0,Package(0x04){
    0x00,
    0x00,
    0x00,
    0x00
}

```



```

    })
    Name(\_S3,Package(0x04){
        0x05,
        0x05,
        0x00,
        0x00
    })
    Name(\_S4,Package(0x04){
        0x06,
        0x06,
        0x00,
        0x00
    })
    Name(\_S5,Package(0x04){
        0x07,
        0x07,
        0x00,
        0x00
    })

/* Examine this table header (DSDT) */

/*
DataTableRegion (HDR, "DSDT", "", "")
Field (HDR, AnyAcc, NoLock, Preserve)
{
    SIG, 32,
    LENG, 32,
    REV, 8,
    SUM, 8,
    OID, 48,
    OTID, 64,
    OREV, 32,
    CID, 32,
    CREV, 32
}

Method (SIZE)
{
    If (LLess (REV, 2))
    {
        Store ("32-bit table", Debug)
    }
    else
    {
        Store ("64-bit table", Debug)
    }
    Return (0)
}

```



```

    }

    */
    Name (SIZE, 0)

    /* Custom operation region */

    OperationRegion(MYOP,0x80,0xFD60,0x6)
    Field(MYOP,ByteAcc,NoLock,Preserve)
    {
        MFLD,8
    }

    Method (TCOP,, Serialized)
    {
        Name (_STR, Unicode ("test"))
        Store (4, MFLD)
        Store (MFLD, Local0)
    }

    Name (ERRS, 0x0)

    /* Warning should be issued for premature string termination */

    NAME (ESC1, "abcdefg\x00hijklmn")
    NAME (ESC2, "abcdefg\000hijklmn")
    Name (ESC3, "abc\a\bdef\n\r\t\v\x03ffff\432")

    Name(CRSA,ResourceTemplate()
    {
        WORDBusNumber(ResourceProducer,MinFixed,MaxFixed,PosDecode,0x0000,0x0019,0x001D,0x0000,0x0005)
        WORDIO(ResourceProducer,MinFixed,MaxFixed,PosDecode,NonISAOnlyRanges,0x0000,0xC000,0xCFFF,0x000
        0,0x1000)
        DWORDMemory(ResourceProducer,PosDecode,MinFixed,MaxFixed,NonCacheable,ReadWrite,0x00000000,0xD8
        000000,0xDBFFFFFF,0x00000000,0x04000000)

    })
    Name(CRSB,ResourceTemplate()
    {
        DWORDMemory(ResourceProducer,PosDecode,MinFixed,MaxFixed,NonCacheable,ReadWrite,0x00000000,0xD8
        000000,0xDBFFFFFF,0x00000000,0x04000000)

    })

    Name(CRSC,ResourceTemplate()
    {

```



```

    VendorShort () {0x1, 0x2, 0x3}
})
Name(CRSD,ResourceTemplate()
{
    VendorLong (VNDL) {0x1, 0x2, 0x3, 0x4, 0x5, 0x6, 0x7, 0x8, 0x9}
})

Name(CRSE,ResourceTemplate()
{
    IRQNoFlags(){3,4,10,11}
    IRQNoFlags(xxxt){3,4,10,11}
})
Name(CRSR, Buffer (Add (SizeOf(CRSA),SizeOf(CRSB)))){ })
Method(_CRS,0,NotSerialized)
{
    Return(CRSR)
}

//
// Unnamed scope
//
Scope (\)
{
    Name(Bxxx,0xFFFFFFFF)
}

Name (LANS, 0x0)

PowerResource(LANP,1,0)
{
    Method(_STA){
        If(LEqual(And(LANS,0x30),0x30)){
            Return(One)
        } Else {
            Return(Zero)
        }
    }
    Method(_ON){
        If(LNot(_STA())){
            Store (0x30, LANS)
        }
    }
    Method(_OFF){
        If(_STA()){
            Store (0, LANS)
        }
    }
}

```



```

}

/* Can a method define another method? */

/*****
Method (TASK, 2, SERIALIZED)
{
    Sleep (100)

    Method (TAS2)
    {
        Sleep (100)
    }

    TAS2()
    Return

}
*****/

/* A recursive method */

Method (RCIV, 1)
{
    Store (Arg0, Debug)
    If (Lequal (Arg0, 0))
    {
        Return ()
    }
    RCIV (Subtract (Arg0, 1))
}

Method (RTOP)
{
    RCIV (100)
}

Scope(\_PR)
{
    Processor(CPU0,0x0,0xFFFFFFFF,0x0) { }
}

Name(B1TP,0xFFFFFFFF)

Name(B2TP,0xFFFFFFFF)
Name(ADPS,0xFFFFFFFF)

```



```

Name(B1PS,0xFFFFFFFF)
Name(B1RS,0xFFFFFFFF)
Name(B1CS,0xFFFFFFFF)
Name(B2PS,0xFFFFFFFF)
Name(B2RS,0xFFFFFFFF)
Name(B2CS,0xFFFFFFFF)
Name(B1DC,3000)
Name(B2DC,2600)
Name(B1LF,3000)
Name(B2LF,2600)
Name(BPIF,0)
Name(PBLL,0)

```

```

Name(RBIF,Package())

```

```

{
    0x1,
    2200,
    2200,
    0x1,

    10800,
    0,
    0,
    1,
    1,
    "CA54200-5003/5",
    "1",
    "LION",
    "Fujitsu"
})

```

```

Method(SMWE, 4)

```

```

{
    return(ONES)
}

```

```

Method(SMRE, 4)

```

```

{
    return(ONES)
}

```

```

/*

```

```

Method(RDBT,0,Serialized){
    If(LNot(SMWE(0x09,0x15,1,1))){
        Store(0x18,Local2)
    }
}

```

```

*/

```



```

Scope(_SB)
{

    Name (SBUF, Buffer (128) {})

    CreateBitField (SBUF, 3, BITY)
    CreateByteField (SBUF, 1, BYTY)
    CreateWordField (SBUF, 2, WRDZ)
    CreateDwordField (SBUF, 4, DWDZ)
    CreateQwordField (SBUF, 8, QWDZ)
    CreateField (SBUF, 128, 12, FLDZ)
    CreateField (SBUF, 148, 96, FLDY)
    CreateField (SBUF, 148, 96, _SB_.FLDW)

    Method (_INI)
    {
        CreateField (_SB_.SBUF, 148, 96, FLDV)
    }

    Device(PCI0)
    {
        Name(_HID,EISAID("PNP0A03"))
        Name(_ADR,0x0)

        Method(_CRS,, Serialized)
        {
            Name(PRT0, ResourceTemplate() {
                WORDBusNumber(          // Bus number resource(0)
                    ResourceConsumer,    // bit 0 of general flags is 1
                    MinFixed,            // Range is notfixed
                    MaxFixed,            // Range is not fixed
                    SubDecode,           // SubDecode
                    0x0000,               // Granularity
                    0xffff1,              // Min
                    0xffff2,              // Max
                    0x0032,               // Translation
                    0x0002,,,             // Range Length
                    BUS0
                ) } )// PRT0

                CreateWordField(PRT0, BUS0._MIN, BMIN)    //Minimum bus number
supported under this bridge.

                Store(3, BMIN)
                Return(PRT0)

            } // _CRS

```



Method(\_SRS)

```
{  
    Return ()  
}
```

Device(EIO)

```
{  
    OperationRegion(FJIO,SystemIO,0xFD60,0x6)  
        Field(FJIO,ByteAcc,NoLock,Preserve)  
        {  
            GIDX,8,  
  
            GDTA,8,  
  
            PIDX,8,  
  
            PDTA,8,  
  
            SIDX,8,  
  
            SDTA,8  
        }  
    IndexField(GIDX,GDTA,ByteAcc,NoLock,Preserve)  
    {  
        Offset(0x2),  
        ,5,  
        VGAS,2,  
        Offset(0x4),  
        ,4,  
        DCKE,1,  
        Offset(0x5),  
        ,6,  
        ACPW,1,  
  
        Offset(0xA),  
        B1P,1,  
  
        B2P,1,  
  
        B1C,1,  
  
        B2C,1,  
  
        B1ER,1,  
  
        B2ER,1,
```



```

        Offset(0xB),
        B1CP,8,

        B2CP,8,

        BCP,8,

        B1VH,8,

        B1VL,8,

        B2VH,8,

        B2VL,8,

        B1TM,8,

        B2TM,8,

        B1CH,8,

        B1CL,8,

        B2CH,8,

        B2CL,8
    }
}
}
}

```

```

Method(RDBT,3,Serialized){
    Store(0x1FFF,Local1)
    If( Arg0 ){
        Store(0x2FFF,Local1)
    }
    Store(0x18,Local2)
    If( Arg1 ){
        Store(0x10,Local2)
    }
    If(LNot(SMRE(0x09,0x15,1,RefOf(Local0)))){
        If(LNot(SMWE(0x08,0x14,1,Local1))){
            If(LNot(SMRE(0x09,0x17,Local2,RefOf(Local3)))){
                Store(Local1,Arg2)
            }
        }
    }
    Or(Local0,0xFFF,Local0)
    SMWE(0x08,0x14,1,Local0)
}

```



```

    }
}
Method(MKWD,2)
{
    If(And(Arg1,0x80)) {
        Or(0xFFFF0000,Arg0,Local0)
        Or(Local0,ShiftLeft(Arg1,8),Local0)
        Subtract(Zero,Local0,Local0)
    } else {
        Store(Arg0,Local0)
        Or(Local0,ShiftLeft(Arg1,8),Local0)
    }
    Return(Local0)
}

Device(CMB1)
{
    Name(_HID,EISAID("PNP0C0A"))
    Name(_UID,0x1)
    Alias(_SB.PCI0.EIO.B1P,_SB_.PCI0.XXXX)
    Alias(_SB.PCI0.EIO.B1P,B1P)
    Alias(_SB.PCI0.EIO.B1C,B1C)
    Alias(_SB.PCI0.EIO.B1CH,B1CH)
    Alias(_SB.PCI0.EIO.B1CL,B1CL)
    Alias(_SB.PCI0.EIO.B1VH,B1VH)
    Alias(_SB.PCI0.EIO.B1VL,B1VL)
    Alias(_SB.PCI0.EIO.B1CP,B1CP)

    Method(_INI)
    {
        Store(B1P, B1PS)
        Store(B1CP,B1RS)
        Store(B1C, B1CS)
    }

    Method(_BIF){
        RDBT(Zero,Zero,RefOf(B1DC))
        RDBT(Zero,One,RefOf(B1LF))
        Store(B1DC,Index(RBIF,1))
        Store(B1LF,Index(RBIF,2))
        Store("CA54200-5003/5",Index(RBIF,9))
        Store("1",Index(RBIF,10))
        Return(RBIF)
    }

    Method(_BST,, Serialized) {

        _INI()
    }
}

```



```

Store(Zero,Local0)

if (LAnd(B1P,LNot(B1C))) {
    Or(Local0,1,Local0)
}

if (LAnd(B1P,B1C)) {
    Or(Local0,2,Local0)
}

if (LLessEqual(B1CP,1)) {

    Or(Local0,4,Local0)
}

Store(MKWD(B1CL,B1CH),Local1)

Store(Divide(Add(Multiply(B1CP,B1LF),99),100),Local2)

Store(MKWD(B1VL,B1VH),Local3)

Name(STAT,Package(4){ })
Store(Local0,Index(STAT,0))
Store(Local1,Index(STAT,1))
Store(Local2,Index(STAT,2))
Store(Local3,Index(STAT,3))

If(LNot(BPIF)){
//    \_SB.PCI0.EIO.EC0.IECT()
//    \_SB.PCI0.EIO.EC0.SECT()
    Store(One,BPIF)
}
return(STAT)
}

}

Device (DEV1)
{
}

Scope(\_TZ)
{
    ThermalZone(TZ1)
    {
        Name(_PSL,Package()
        {

```



```

        \_PR.CPU0
    })
}
}

Method (TZ2, 0, SERIALIZED)
{
    Name(_PSL,Package()
    {
        \_PR.CPU0
    })

    Return (_PSL)

}

ThermalZone (THM1)
{
}

Method (NOTI)
{
    Notify (\DEV1, 0)
    Notify (\THM1, 0)
    Notify (\_PR.CPU0, 0)
}

Method (_ERR, 3)
{
    Increment (ERRS)
    Store ("Run-time exception:", Debug)
    Store (Arg0, Debug)
    Store (Arg1, Debug)

    Return (0)      // Map error to AE_OK
}

Method (DIV0)
{
    Store (1, Local0)
    Store (0, Local1)
    Divide (Local0, Local1, Local3)

    Store ("DIV0 - noabort", Debug)
}

Method (ERR_, 2)
{

```



```

Local0 = ToDecimalString (Arg1)
if (LEqual (Arg0, 0))
{
    Printf ("++++ MTHD_ERROR at line %o: Results not equal!", Local0)
}
if (LEqual (Arg0, 1))
{
    Printf ("++++ MTHD_ERROR at line %o: Numeric result is incorrect!", Local0)
}
if (LEqual (Arg0, 2))
{
    Printf ("++++ MTHD_ERROR at line %o: Operand was clobbered!", Local0)
}

}

Notify (DEV1, Arg0)
Increment (ERRS)
}

Method (R226, 2)
{
}
Method (R225, 2)
{
    R226 (Arg0, Arg1)
}
Method (R224, 2)
{
    R225 (Arg1, Arg0)
}
Method (R223, 2)
{
    R224 (Arg0, Arg1)
}
Method (R222, 2)
{
    R223 (Arg1, Arg0)
}
Method (R111)
{
    Store (0x01010101, Local0)
    R222 (0xABAB, Local0)
    Store (Local0, Local1)
}

Method (MAIN)
{

```



```

//  SIZE()
Store (NUM1(), Local0)
\CMB1._BST()
RDBT(1,2,3)
OBJ1(1)
OBJ2(2)
CHEK()
RETZ()
BITZ()
LOGS()
REFS()
COND()
TZ2()

//
// iPCO tests added
//
Store (\IFEL.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\NOSV.TEST(), Local0)
if (LGreater (Local0, 0))
{

ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\IDXF.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\_SB_.NSTL.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\RTBF.TEST(), Local0)
if (LGreater (Local0, 0))

```



```

{
  ERR_ (1, __LINE__)
  Return(Local0)
}

Store (\_SB_.RTL.V.TEST(), Local0)
if (LGreater (Local0, 0))
{
  ERR_ (1, __LINE__)
  Return(Local0)
}

Store (\_SB_.RETP.TEST(), Local0)
if (LGreater (Local0, 0))
{
  ERR_ (1, __LINE__)
  Return(Local0)
}

Store (\WHLR.TEST(), Local0)
if (LGreater (Local0, 0))
{
  ERR_ (1, __LINE__)
  Return(Local0)
}

Store (\ANDO.TEST(),
Local0)
if (LGreater (Local0, 0))
{
  ERR_ (1, __LINE__)
  Return(Local0)
}

Store (\BRKP.TEST(), Local0)
if (LGreater (Local0, 0))
{
  ERR_ (1, __LINE__)
  Return(Local0)
}

Store (\ADSU.TEST(), Local0)
if (LGreater (Local0, 0))
{
  ERR_ (1, __LINE__)
  Return(Local0)
}

```



```

Store (\INDC.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\LOPS.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\FDSO.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\MLDV.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\NBIT.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\SHFT.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\XORD.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```



```

Store (\CRBF.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\IDX4.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\EVNT.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\SZLV.TEST(), Local0)
if (LGreater (Local0, 0))

{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\_SB_.BYTF.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\DWDF.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

```

```

Store (\DVAX.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)

```



```

    Return(Local0)
}

Store (\IDX6.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\IDX5.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\_SB_.IDX0.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\_SB_.IDX3.TEST(),
Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\IDX7.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\MTCH.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\WHLB.TEST(), Local0)
if (LGreater (Local0, 0))

```



```

{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\_SB_.IDX2.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\_SIZO.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1, __LINE__)
    Return(Local0)
}

Store (\_SB_.SMIS.TEST(), Local0)
if (LGreater (Local0, 0))
{
    ERR_ (1,
__LINE__)
    Return(Local0)
}

if (LGreater (ERRS, 0))
{
    Store ("***** There were errors during the execution of the test *****", Debug)
}

// Flush all notifies

Sleep (250)

//
// Last Test
//

Return(0) // Success
}

Method (OBJ1, 1, SERIALIZED)
{

    Store (3, Local0)

```



```

Name(BUFR, Buffer (Local0) { })
Name(BUF1, Buffer (4) { 1,2,3,4})
Name(BUF2, Buffer (4) { })

Store (BUF1, BUF2)
Mutex (MTX1, 4)

Alias (MTX1, MTX2)
}

Mutex (MTXT, 0)
Mutex (MTXX, 0)

/*
* Field Creation
*/

Method (FLDS,, Serialized)
{
    Store ("+++++++ Creating BufferFields", Debug)
    Name (BUF2, Buffer (128) { })

    CreateBitField (BUF2, 3, BIT2)
    CreateByteField (BUF2, 1, BYT2)
    CreateWordField (BUF2, 2, WRD2)
    CreateDwordField (BUF2, 4, DWD2)
    CreateQwordField (BUF2,
8, QWD2)
    CreateField (BUF2, 128, 12, FLD2)
    CreateField (BUF2, 148, 96, FLD3)

    Store (0x1, BIT2)
    Store (BIT2, Local0)
    if (LNotEqual (Local0, 0x1))
    {
        ERR_ (1, __LINE__)
    }
    else
    {
        Store (DerefOf (Index (BUF2, 0)), Local0)
        if (LNotEqual (Local0, 0x08))
        {
            ERR_ (1, __LINE__)
        }
        else
        {
            Store ("+++++++ Bit BufferField I/O PASS", Debug)

```



```

    }
}

Store (0x1A, BYT2)
Store (BYT2, Local0)
if (LNotEqual (Local0, 0x1A))
{
    ERR_ (1, __LINE__)
}
else
{
    Store ("+++++++ Byte BufferField I/O PASS", Debug)
}

Store (0x1234, WRD2)
Store (WRD2, Local0)
if (LNotEqual (Local0, 0x1234))
{
    ERR_ (1, __LINE__)
}
else
{
    Store ("+++++++ Word BufferField
I/O PASS", Debug)
}

Store (0x123, FLD2)
Store (FLD2, Local0)
if (LNotEqual (Local0, 0x123))
{
    ERR_ (1, __LINE__)
}
else
{
    Store ("+++++++ 12-bit BufferField I/O PASS", Debug)
}

Store (0x12345678, DWD2)
Store (DWD2, Local0)
if (LNotEqual (Local0, 0x12345678))
{
    ERR_ (1, __LINE__)
}
else
{
    Store ("+++++++ Dword BufferField I/O PASS", Debug)
}

```



```

Store (0x1234567887654321, QWD2)
Store (QWD2, Local0)
if (LNotEqual (Local0, 0x1234567887654321))
{
    ERR_ (1, __LINE__)
}
else
{
    Store ("+++++++ Qword BufferField I/O PASS", Debug)
}
}

/* Field execution */

Method (FLDX,, Serialized)
{
    Field (\_SB_.MEM.SMEM, AnyAcc, NoLock, Preserve)
    { // Field: SMEM overlay using 32-bit field elements
        SMD0, 32, // 32-bits
        SMD1, 32, // 32-bits
        SMD2, 32, // 32-bits
        SMD3, 32 // 32-bits
    } // Field: SMEM overlay using 32-bit field elements
    Field (\_SB_.MEM.SMEM, AnyAcc, NoLock, Preserve)
    { // Field: SMEM overlay using greater than 32-bit field elements
        SME0, 69, // larger than an integer (32 or 64)
        SME1, 97 // larger than an integer
    } // Field: SMEM overlay using greater than 32-bit field elements
}

Method (MTX_, )
{
    /* Test "Force release" of mutex on method exit */

    Acquire (MTXT, 0xFFFF)
    Acquire (MTXX, 0xFFFF)

    Store ("+++++++ Acquiring Mutex MTX2", Debug)
    Acquire (_GL_, 0xFFFF)

    Store ("+++++++ Releasing Mutex MTX2", Debug)
    Release (_GL_)
}

```



```

Method (OBJ2, 1, Serialized)
{
    Store ("+++++++ Creating Buffer BUFO", Debug)
    Name (BUFO, Buffer (32)
{ })

    Store ("+++++++ Creating OpRegion OPR2", Debug)
    OperationRegion (OPR2, SystemMemory, Arg0, 256)

    Store ("+++++++ Creating Field(s) in OpRegion OPR2", Debug)
    Field (OPR2, ByteAcc, NoLock, Preserve)
    {
        IDX2, 8,
        DAT2, 8,
        BNK2, 4
    }

    Store ("+++++++ Creating BankField BNK2 in OpRegion OPR2", Debug)
    //
    // mcw 3/20/00 - changed FET0, 4, FET1, 3 to FET0, 1, FET1, 1
    //
    BankField (OPR2, BNK2, 0, ByteAcc, NoLock, Preserve)
    {
        FET0, 4,
        FET1, 3
    }

    Store ("+++++++ Creating IndexField", Debug)
    IndexField (IDX2, DAT2, ByteAcc, NoLock, Preserve)
    {
        FET2, 4,
        FET3, 3
    }

    Store ("+++++++ SizeOf (BUFO)", Debug)
    SizeOf (BUFO)

    Store ("+++++++ Store (SizeOf (BUFO), Local0)", Debug)
    Store (SizeOf (BUFO), Local0)

    Store ("+++++++ Concatenate (\\"abd\\",
\\"def\\", Local0)", Debug)
    Concatenate ("abd", "def", Local0)
    Store (Local0, Debug)

    Store ("+++++++ Concatenate (\\"abd\\", 0x7B, Local0)", Debug)
    Concatenate ("abd", 0x7B, Local0)
    Store (Local0, Debug)

```



```

Store ("+++++++ Creating Event EVT2", Debug)
Event (EVT2)

Store ("+++++++ Creating Mutex MTX2", Debug)
Mutex (MTX2, 0)

Store ("+++++++ Creating Alias MTXA to MTX2", Debug)
Alias (MTX2, MTXA)

Store ("+++++++ Acquiring Mutex MTX2", Debug)
Acquire (MTX2, 0xFFFF)

Store ("+++++++ Acquiring Mutex MTX2 (2nd acquire)", Debug)
Acquire (MTX2, 1)

Store ("+++++++ Releasing Mutex MTX2", Debug)
Release (MTX2)

// Type 1 opcodes

Store ("+++++++ Signalling Event EVT2", Debug)
Signal (EVT2)

Store ("+++++++ Resetting Event EVT2", Debug)
Reset (EVT2)

Store ("+++++++ Signalling Event EVT2", Debug)

Signal (EVT2)

Store ("+++++++ Waiting Event EVT2", Debug)
Wait (EVT2, 0xFFFF)

Store ("+++++++ Sleep", Debug)
Sleep (100)

Store ("+++++++ Stall", Debug)
Stall (254)

Store ("+++++++ NoOperation", Debug)
Noop

// Type 2 Opcodes

Store ("+++++++ Return from Method OBJ2", Debug)
return (4)
}

```



```

Method (NUM1, 0)
{
    /* ADD */

    Store ("+++++++ Add (0x12345678, 0x11111111, Local0)", Debug)
    Add (0x12345678, 0x11111111, Local0)

    Store ("+++++++ Store (Add (0x12345678, 0x11111111), Local1)", Debug)
    Store (Add (0x12345678, 0x11111111), Local1)

    Store ("+++++++ Checking result from ADD", Debug)
    if (LNotEqual (Local0, Local1))
    {
        ERR_ (0, __LINE__)
    }

    /* SUBTRACT */

    Store ("+++++++ Subtract (0x87654321, 0x11111111, Local4)", Debug)
    Subtract (0x87654321, 0x11111111, Local4)

    Store ("+++++++ Store (Subtract (0x87654321, 0x11111111), Local5)", Debug)
    Store (Subtract (0x87654321, 0x11111111), Local5)

    Store ("+++++++ Checking result from SUBTRACT", Debug)
    if (LNotEqual (Local4, Local5))
    {
        ERR_ (0, __LINE__)
    }

    /* MULTIPLY */

    Store ("+++++++ Multiply (33, 10, Local6)", Debug)
    Multiply (33, 10, Local6)

    Store ("+++++++ Store (Multiply (33, 10), Local7)", Debug)
    Store (Multiply (33, 10), Local7)

    Store ("+++++++ Checking result from MULTIPLY", Debug)
    if (LNotEqual (Local6, Local7))
    {
        ERR_ (0, __LINE__)
    }
}

```



```

}

/* DIVIDE */

Store ("+++++++ Divide (100, 9, Local1, Local2)", Debug)
Divide (100, 9, Local1, Local2)

Store ("+++++++ Store (Divide (100, 9), Local3)", Debug)
Store (Divide (100, 9), Local3)

Store ("+++++++ Checking (quotient) result from DIVIDE", Debug)
if
(LNotEqual (Local2, Local3))
{
    ERR_ (0, __LINE__)
}

/* INCREMENT */

Store ("+++++++ Increment (Local0)", Debug)
Store (1, Local0)
Store (2, Local1)
Increment (Local0)

Store ("+++++++ Checking result from INCREMENT", Debug)
if (LNotEqual (Local0, Local1))
{
    ERR_ (0, __LINE__)
}

/* DECREMENT */

Store ("+++++++ Decrement (Local0)", Debug)
Store (2, Local0)
Store (1, Local1)
Decrement (Local0)

Store ("+++++++ Checking result from DECREMENT", Debug)
if (LNotEqual (Local0, Local1))
{
    ERR_ (0, __LINE__)
}

/* TOBCD */

```



```

/* FROMBCD */

Store ("+++++++ ToBCD (0x1234, Local5)", Debug)
ToBCD (0x1234, Local5)

Store ("+++++++ FromBCD (Local5, Local6)", Debug)
FromBCD (Local5, Local6)

Store ("+++++++ Return (Local6)", Debug)
Return
(Local6)
}

```

Method (CHEK)

```

{

Store (3, Local0)
Store (3, Debug)
Store (Local0, Debug)
Store (7, Local1)

Add (Local0, Local1)
if (LNotEqual (Local0, 3))
{
ERR_ (2, __LINE__)
}
if (LNotEqual (Local1, 7))
{
ERR_ (2, __LINE__)
}

Add (Local0, Local1, Local2)
if (LNotEqual (Local0, 3))
{
ERR_ (2, __LINE__)
}
if (LNotEqual (Local1, 7))
{
ERR_ (2, __LINE__)
}
}

```

Method (RET1)

```

{
Store (3, Local0)

```



```

    Return (Local0)
}

Method (RET2)
{
    Return (RET1())
}

Method (RETZ)
{
    RET2 ()
}

Method (BITZ)
{
    Store ("+++++++ FindSetLeftBit (0x00100100, Local0)", Debug)
    FindSetLeftBit (0x00100100, Local0)
    if (LNotEqual (Local0, 21))
    {
        ERR_ (1, __LINE__)
    }

    Store ("+++++++
FindSetRightBit (0x00100100, Local1)", Debug)
    FindSetRightBit (0x00100100, Local1)
    if (LNotEqual (Local1, 9))
    {
        ERR_ (1, __LINE__)
    }

    Store ("+++++++ And (0xF0F0F0F0, 0x11111111, Local2)", Debug)
    And (0xF0F0F0F0, 0x11111111, Local2)
    if (LNotEqual (Local2, 0x10101010))
    {
        ERR_ (1, __LINE__)
    }

    Store ("+++++++ NAnd (0xF0F0F0F0, 0x11111111, Local3)", Debug)
    NAnd (0xF0F0F0F0, 0x11111111, Local3)
    if (LNotEqual (Local3, 0xEFEFEFEF))
    {
        ERR_ (1, __LINE__)
    }

    Store ("+++++++ Or (0x11111111, 0x22222222, Local4)", Debug)
    Or (0x11111111, 0x22222222, Local4)
    if (LNotEqual (Local4, 0x33333333))

```



```

{
    ERR_ (1, __LINE__)
}

Store ("+++++++ NOOr (0x11111111, 0x22222222, Local5)", Debug)
NOOr (0x11111111, 0x22222222, Local5)
if (LNotEqual (Local5, 0xCCCCCCCC))
{

ERR_ (1, __LINE__)
}

Store ("+++++++ XOr (0x11113333, 0x22222222, Local6)", Debug)
XOr (0x11113333, 0x22222222, Local6)
if (LNotEqual (Local6, 0x33331111))
{
    ERR_ (1, __LINE__)
}

Store ("+++++++ ShiftLeft (0x11112222, 2, Local7)", Debug)
ShiftLeft (0x11112222, 2, Local7)
if (LNotEqual (Local7, 0x44448888))
{
    ERR_ (1, __LINE__)
}

Store ("+++++++ ShiftRight (Local7, 2, Local7)", Debug)
ShiftRight (Local7, 2, Local7)
if (LNotEqual (Local7, 0x11112222))
{
    ERR_ (1, __LINE__)
}

Store ("+++++++ Not (Local0, Local1)", Debug)
Store (0x22224444, Local0)
Not (Local0, Local1)
if (LNotEqual (Local0, 0x22224444))
{
    ERR_ (2, __LINE__)
}

if (LNotEqual (Local1, 0xDDDDBBBB))
{
    ERR_ (1, __LINE__)
}

Return (Local7)

```



```
}
```

Method (LOGS)

```
{
```

```
    Store ("+++++++ Store (LAnd (0xFFFFFFFF, 0x11111111), Local0)", Debug)
```

```
    Store (LAnd (0xFFFFFFFF, 0x11111111), Local0)
```

```
    Store ("+++++++ Store (LEqual (0xFFFFFFFF, 0x11111111), Local)", Debug)
```

```
    Store (LEqual (0xFFFFFFFF, 0x11111111), Local1)
```

```
    Store ("+++++++ Store (LGreater (0xFFFFFFFF, 0x11111111), Local2)", Debug)
```

```
    Store (LGreater (0xFFFFFFFF, 0x11111111), Local2)
```

```
    Store ("+++++++ Store (LGreaterEqual (0xFFFFFFFF, 0x11111111), Local3)", Debug)
```

```
    Store (LGreaterEqual (0xFFFFFFFF, 0x11111111), Local3)
```

```
    Store ("+++++++ Store (LLess (0xFFFFFFFF, 0x11111111), Local4)", Debug)
```

```
    Store (LLess (0xFFFFFFFF, 0x11111111), Local4)
```

```
    Store ("+++++++ Store (LLessEqual (0xFFFFFFFF, 0x11111111), Local5)", Debug)
```

```
    Store (LLessEqual (0xFFFFFFFF, 0x11111111), Local5)
```

```
    Store ("+++++++ Store (LNot (0x31313131), Local6)", Debug)
```

```
    Store (0x00001111, Local6)
```

```
    Store (LNot (Local6),
```

```
Local7)
```

```
    if (LNotEqual (Local6, 0x00001111))
```

```
    {
```

```
        ERR_ (2, __LINE__)
```

```
    }
```

```
    if (LNotEqual (Local7, 0x0))
```

```
    {
```

```
        ERR_ (1, __LINE__)
```

```
    }
```

```
    Store ("+++++++ Store (LNotEqual (0xFFFFFFFF, 0x11111111), Local7)", Debug)
```

```
    Store (LNotEqual (0xFFFFFFFF, 0x11111111), Local7)
```

```
    Store ("+++++++ Lor (0x0, 0x1)", Debug)
```

```
    if (Lor (0x0, 0x1))
```

```
    {
```

```
        Store ("+_+_+_+_ Lor (0x0, 0x1) returned TRUE", Debug)
```

```
    }
```



```

    return (Local7)
}

```

Method (COND)

```

{
    Store ("+++++++ Store (0x4, Local0)", Debug)
    Store (0x4, Local0)

    Store ("+++++++ While (Local0)", Debug)
    While (Local0)
    {
        Store ("+++++++ Decrement (Local0)", Debug)
        Decrement (Local0)
    }
}

```

```

    Store ("+++++++ Store (0x3, Local6)", Debug)
    Store (0x3, Local6)

```

```

    Store ("+++++++ While (Subtract (Local6, 1))", Debug)
    While (Subtract
(Local6, 1))
    {
        Store ("+++++++ Decrement (Local6)", Debug)
        Decrement (Local6)
    }
}

```

```

    Store ("+++++++ [LVL1] If (LGreater (0x2, 0x1))", Debug)
    If (LGreater (0x2, 0x1))
    {
        Store ("+++++++ [LVL2] If (LEqual (0x11111111, 0x22222222))", Debug)
        If (LEqual (0x11111111, 0x22222222))
        {
            Store ("+++++++ ERROR: If (LEqual (0x11111111, 0x22222222)) returned TRUE", Debug)
        }
    }
}

```

```

else
{
    Store ("+++++++ [LVL3] If (LNot (0x0))", Debug)
    If (LNot (0x0))
    {
        Store ("+++++++ [LVL4] If (LAnd (0xEEEEEEEE, 0x2))", Debug)
        If (LAnd (0xEEEEEEEE, 0x2))
        {
            Store ("+++++++ [LVL5] If (LLess (0x44444444, 0x3))", Debug)
        }
    }
}

```



```

        If (LLess (0x44444444, 0x3))
        {
            Store ("++++++
ERROR: If (LLess (0x44444444, 0x3)) returned TRUE", Debug)
        }

        else
        {
            Store ("+++++++ Exiting from nested IF/ELSE statements", Debug)
        }
    }
}
}

Store ("+++++++ [LVL1] If (LGreater (0x2, 0x1))", Debug)
If (LGreater (0x2, 0x1))
{
    Store ("+++++++ [LVL2] If (LEqual (0x11111111, 0x22222222))", Debug)
    If (LEqual (0x11111111, 0x22222222))
    {
        Store ("+++++++ ERROR: If (LEqual (0x11111111, 0x22222222)) returned TRUE", Debug)
    }

    else
    {
        Store ("+++++++ [LVL3] If (LNot (0x0))", Debug)
        If (LNot (0x0))
        {
            Store ("+++++++ [LVL4] If (LAnd (0xEEEEEEEE, 0x2))", Debug)
            If (LAnd (0xEEEEEEEE, 0x2))
            {

                Store ("+++++++ [LVL5] If (LLess (0x44444444, 0x3))", Debug)
                If (LLess (0x44444444, 0x3))
                {
                    Store ("+++++++ ERROR: If (LLess (0x44444444, 0x3)) returned TRUE", Debug)
                }

                else
                {
                    Store ("+++++++ Returning from nested IF/ELSE statements", Debug)
                    Return (Local6)
                }
            }
        }
    }
}
}

```



```

    }

}

Method (REFS,, Serialized)
{
    Name (BBUF, Buffer() {0xB0, 0xB1, 0xB2, 0xB3, 0xB4, 0xB5, 0xB6, 0xB7})

    Name (NEST, Package ()
    {
        Package ()
        {
            0x01, 0x02, 0x03, 0x04, 0x05, 0x06
        },
        Package ()
        {
            0x11, 0x12, 0x12, 0x14, 0x15, 0x16
        }
    })

    Store (RefOf (MAIN), Local5)

    // For this to work, ABCD must NOT exist.

    Store (CondRefOf (ABCD, Local0), Local1)
    if (LNotEqual (Local1, 0))
    {
        ERR_ (2, __LINE__)
    }

    Store (CondRefOf (BBUF, Local0), Local1)
    if (LNotEqual (Local1, Ones))
    {
        ERR_ (2, __LINE__)
    }

    Store (DeRefOf (Index (BBUF, 3)), Local6)
    if (LNotEqual (Local6, 0xB3))
    {
        ERR_ (2, __LINE__)
    }

    Store (DeRefOf (Index (DeRefOf (Index (NEST, 1)), 3)), Local0)
    if (LNotEqual (Local0, 0x14))
    {
        ERR_ (2, __LINE__)
    }

```



```

    }

    Store (0x11223344, Local0)
    Store (RefOf (Local0), Local1)

    Store (DerefOf (Local1), Local2)
    If (LNotEqual (Local2, 0x11223344))
    {
        ERR_ (2, __LINE__)
    }

    /* Parser thinks this is a method invocation!! */

    // RefOf (MAIN)

    // RefOf (R____)
    // RefOf (BBUF)

    // Store (RefOf (Local0), Local1)

    // CondRefOf (BBUF, Local2)
    // CondRefOf (R____, Local3)

    // Store (DerefOf (Local1), Local4)

    // Return (Local4)
    }

    Method (INDX, 0, Serialized)
    {
        Name(STAT,Package(4){ })
        Store(0x44443333,Index(STAT,0))
    }

    //=====
    //=====
    //===== iPCO TESTS =====
    //=====
    //=====
    //
    //
    // test IfElseOp.asl
    //
    // test for IfOp and ElseOp, including validation of object stack cleanup

```



```

//
Device (IFEL)
{
    Name (DWRD, 1)
    Name (RSLT, 0)

    // IFNR control method executes IfOp branch with NO nested Return
    // and no Else branch
    Method (IFNR)
    {
        Store (DWRD, RSLT)
        If (LEqual (DWRD, 1))
        {

            Store (0, RSLT)
        }
    } // IFNR

    // NINR control method does not execute If branch and has no Else branch
    Method (NINR)
    {
        Store (0, RSLT)
        If (LNotEqual (DWRD, 1))
        {
            Store (DWRD, RSLT)
        }
    } // NINR

    // IENR control method executes IfOp branch with NO nested Return
    Method (IENR)
    {
        If (LEqual (DWRD, 1))
        {
            Store (0, RSLT)
        }
        Else
        {
            Store (DWRD, RSLT)
        }
    } // IENR

    // ELNR control method executes ElseOp branch with NO nested Return
    Method (ELNR)
    {
        If (LNotEqual (DWRD, 1))
        {
            Store (DWRD, RSLT)
        }
    }

```



```

    Else
    {
        Store (0, RSLT)
    }
} // ELNR

// IFRT control method executes IfOp branch with nested
Return with
// no Else branch
Method (IFRT)

{
    If (LEqual (DWRD, 1))
    {
        Return (0)
    }
    Return (DWRD)
} // IFRT

// IERT control method executes IfOp branch with nested Return with
// Else branch
Method (IERT)
{
    If (LEqual (DWRD, 1))
    {
        Return (0)
    }
    Else
    {
        Return (DWRD)
    }
} // IERT

// ELRT control method executes ElseOp branch with nested Return
Method (ELRT)
{
    If (LNotEqual (DWRD, 1))
    {
        Return (DWRD)
    }
    Else
    {
        Return (0)
    }
} // ELRT

Method (TEST)
{

```



```

Store ("+++++++ IfElseOp Test", Debug)

// IfOp with NO return value
IFNR()
If (LNotEqual (RSLT,
0))
{
    Return (RSLT)
}

// IfOp with NO return value
NINR()
If (LNotEqual (RSLT, 0))
{
    Return (RSLT)
}

// IfOp with NO return value
IENR()
If (LNotEqual (RSLT, 0))
{
    Return (RSLT)
}

// ElseOp with NO return value
ELNR()
If (LNotEqual (RSLT, 0))
{
    Return (RSLT)
}

// IfOp with return value
Store (IFRT, RSLT)
If (LNotEqual (RSLT, 0))
{
    Return (RSLT)
}

// IfOp with return value
Store (IERT, RSLT)
If (LNotEqual (RSLT, 0))
{
    Return (RSLT)
}

// ElseOp with return value
Store (ELRT, RSLT)
If (LNotEqual (RSLT, 0))

```



```

    {

        Return (RSLT)
    }

    Return (0)
} // TEST
} // IFEL

//
// test NoSave.asl
//
//
// Internal test cases to validate IfOp (Operator (,)) where Operator
// target is ZeroOp to throw away the results.
// Includes internal test cases for logical operators with no destination
// operands.
//
Device (NOSV)
{
    Method (TEST,, Serialized)
    {
        Store ("+++++++ NoSave Test", Debug)

        Name (WRD, 0x1234)

        //
        // Begin test of nested operators without saving results
        //

        // Test If (And ()) with no save of And result
        If (And (3, 1, ))
        {
            Store (1, WRD) // pass -- just do something
        }
        else
        {
            Return (1) // fail
        }

        // Test If (And ()) with no save of And result
        If (And (4, 1, ))
        {
            Return (2) //
fail
        }
        else
        {

```



```

    Store (2, WRD) // pass -- just do something
}

// Test If (NAnd ()) with no save of NAnd result
If (NAnd (3, 1, ))
{
    Store (3, WRD) // pass -- just do something
}
else
{
    Return (3)    // fail
}

// Test If (NAnd ()) with no save of NAnd result
If (NAnd (0xFFFFFFFF, 0xFFFFFFFF, ))
{
    Return (4)    // fail
}
else
{
    Store (4, WRD) // pass -- just do something
}

// Test If (NOr ()) with no save of NOr result
If (NOr (0, 1, ))
{
    Store (5, WRD) // pass -- just do something
}
else
{
    Return (5)    // fail
}

// Test If (NOr ()) with no save
of NOr result
If (NOr (0xFFFFF000, 1, ))
{
    Return (6)    // fail
}
else
{
    Store (6, WRD) // pass -- just do something
}

// Test If (Not ()) with no save of Not result

```



```

If (Not (1, ))
{
    Store (7, WRD) // pass -- just do something
}
else
{
    Return (7)    // fail
}

// Test If (Not ()) with no save of Not result
If (Not (0xFFFFFFFF, ))
{
    Return (8)    // fail
}
else
{
    Store (8, WRD) // pass -- just do something
}

// Test If (Or ()) with no save of Or result
If (Or (3, 1, ))
{
    Store (9, WRD) // pass -- just do something
}
else
{
    Return (9)
// fail
}

// Test If (Or ()) with no save of Or result
If (Or (0, 0, ))
{
    Return (10)   // fail
}
else
{
    Store (10, WRD) // pass -- just do something
}

// Test If (XOr ()) with no save of XOr result
If (XOr (3, 1, ))
{
    Store (11, WRD) // pass -- just do something
}
else

```



```

{
    Return (11)    // fail
}

// Test If (XOr ()) with no save of XOr result
If (XOr (3, 3, ))
{
    Return (12)    // fail
}
else
{
    Store (12, WRD) // pass -- just do something
}

//
// Begin test of logical operators with no destination operands
//

// Test If (LAnd ()) with no save of LAnd result
If (LAnd (3, 3))
{
    Store (21, WRD) // pass -- just do something
}
else
{
    Return (21)    // fail
}

// Test If (LAnd ()) with no save of LAnd result
If (LAnd (3, 0))
{
    Return (22)    // fail
}
else
{
    Store (22, WRD) // pass -- just do something
}

// Test If (LAnd ()) with no save of LAnd result
If (LAnd (0, 3))
{
    Return (23)    // fail
}
else
{
    Store (23, WRD) // pass -- just do something
}

```



```

// Test If (LAnd ()) with no save of LAnd result
If (LAnd (0, 0))
{
    Return (24)    // fail
}
else
{
    Store (24, WRD) // pass -- just do something
}

```

```

// Test If (LEqual ()) with no save of LEqual result
If (LEqual (3, 3))
{
    Store (31, WRD) // pass -- just do something
}
else
{
    Return (31)    // fail
}

```

```

// Test If (LEqual ()) with no save of LEqual result
If (LEqual (1, 3))
{
    Return (32)    // fail
}
else
{
    Store (32, WRD) // pass -- just do something
}

```

```

// Test If (LGreater ()) with no save of LGreater result
If (LGreater (3, 1))
{
    Store (41, WRD) // pass -- just do something
}
else
{
    Return (41)    // fail
}

```

```

// Test If (LGreater ()) with no save of LGreater result
If (LGreater (4, 4))
{
    Return (42)    // fail
}

```



```

}
else
{
    Store (42, WRD) // pass -- just do something
}

// Test If (LGreater ()) with no save of LGreater result
If (LGreater (1, 4))
{
    Return (43)    // fail
}
else
{
    Store (43, WRD) // pass -- just do something
}

// Test If (LGreaterEqual ()) with no save of LGreaterEqual result
If (LGreaterEqual (3, 1))
{
    Store (44, WRD) // pass -- just do something
}
else
{
    Return (44)    // fail
}

// Test If (LGreaterEqual ()) with no save of LGreaterEqual result
If (LGreaterEqual (3, 3))
{
    Store (45, WRD) // pass -- just do something
}
else
{
    Return (45)    // fail
}

// Test If (LGreaterEqual ()) with no save of LGreaterEqual result
If (LGreaterEqual (3, 4))
{
    Return (46)    // fail
}
else
{
    Store (46, WRD) // pass -- just do something
}

```



```

// Test If (LLess ()) with no save of LLess result
If (LLess (1, 3))
{
    Store (51, WRD) // pass -- just do something
}
else
{
    Return (51)    // fail
}

// Test If (LLess ()) with no save of LLess result
If (LLess (2, 2))
{
    Return (52)    // fail
}
else
{
    Store (52, WRD) // pass -- just do something
}

// Test If (LLess ()) with no save of LLess result
If (LLess (4, 2))
{
    Return (53)    // fail
}

else
{
    Store (53, WRD) // pass -- just do something
}

// Test If (LLessEqual ()) with no save of LLessEqual result
If (LLessEqual (1, 3))
{
    Store (54, WRD) // pass -- just do something
}
else
{
    Return (54)    // fail
}

// Test If (LLessEqual ()) with no save of LLessEqual result
If (LLessEqual (2, 2))
{
    Store (55, WRD) // pass -- just do something
}

```



```

else
{
    Return (55)    // fail
}

// Test If (LLessEqual ()) with no save of LLessEqual result
If (LLessEqual (4, 2))
{
    Return (56)    // fail
}
else
{
    Store (56, WRD) // pass -- just do something
}

// Test If (LNot ()) with no save
of LNot result
If (LNot (0))
{
    Store (61, WRD) // pass -- just do something
}
else
{
    Return (61)    // fail
}

// Test If (LNot ()) with no save of LNot result
If (LNot (1))
{
    Return (62)    // fail
}
else
{
    Store (62, WRD) // pass -- just do something
}

// Test If (LNotEqual ()) with no save of LNotEqual result
If (LNotEqual (3, 3))
{
    Return (63)    // fail
}
else
{
    Store (63, WRD) // pass -- just do something
}

```



```
// Test If (LNotEqual ()) with no save of LNotEqual result
If (LNotEqual (1, 3))
{
    Store (64, WRD) // pass -- just do something
}
else
{

    Return (64)    // fail
}
```

```
// Test If (LOr ()) with no save of LOr result
If (LOr (3, 1))
{
    Store (71, WRD) // pass -- just do something
}
else
{
    Return (71)    // fail
}
```

```
// Test If (LOr ()) with no save of LOr result
If (LOr (0, 1))
{
    Store (72, WRD) // pass -- just do something
}
else
{
    Return (72)    // fail
}
```

```
// Test If (LOr ()) with no save of LOr result
If (LOr (3, 0))
{
    Store (73, WRD) // pass -- just do something
}
else
{
    Return (73)    // fail
}
```

```
// Test If (LOr ()) with no save of LOr result
If (LOr (0, 0))
{
    Return (74)    // fail
}
```



```

    }
    else
    {
        Store (74, WRD) // pass -- just do something
    }

    Return (0)
} // TEST
} // NOSV

//
// test IndxFld.asl
//
// IndexFld test
// This is just a subset of the many RegionOp/Index Field test cases.
// Tests index field element AccessAs macro.
//
Device (IDXF)
{ // Test device name

    OperationRegion (SIO, SystemIO, 0x100, 2)
    Field (SIO, ByteAcc, NoLock, Preserve)
    {
        INDX, 8,
        DATA, 8
    }
    IndexField (INDX, DATA, AnyAcc, NoLock, WriteAsOnes)
    {
        AccessAs (ByteAcc, 0),
        IFE0, 8,
        IFE1, 8,
        IFE2, 8,
        IFE3, 8,
        IFE4, 8,
        IFE5, 8,
        IFE6, 8,
        IFE7, 8,
        IFE8, 8,
        IFE9, 8,
    }

    Method (TEST)
    {
        Store ("+++++++ IndxFld Test", Debug)
    }
}

```



```

Store (IFE0, Local0)
    Store (IFE1, Local1)
    Store (IFE2, Local2)

    Return (0)
} // TEST
} // IDXF

//
// test NestdLor.asl
//
Scope (\_SB) // System Bus
{ // _SB system bus

    Name (ZER0, 0)
    Name (ZER1, 0)
    Name (ZER2, 0)
    Name (ONE0, 1)

    Device (NSTL)
    {
        Method (TEST)
        {
            Store ("+++++++ NestdLor Test", Debug)

            If (Lor (ZER0, Lor (ZER1, Lor (ZER2, ONE0))))
            { // Indicate Pass
                Store (0x00, Local0)
            }

            Else
            { // Indicate Fail
                Store (0x01, Local0)
            }

            Return (Local0)
        } // End Method TEST
    } // Device NSTL
} // _SB system bus

//
// test RetBuf.asl
//
// Test ReturnOp(Buffer)
// This is required to support Control Method Batteries on
// Dell
// Latitude Laptops (e.g., CP1-A)
//

```



```

Device (RTBF)
{
    Method (SUBR, 1)
    {
        Return (Arg0)
    }

    Method (RBUF,, Serialized)
    { // RBUF: Return Buffer from local variable
        Name (ABUF, Buffer() {"ARBITRARY_BUFFER"})

        // store local buffer ABUF into Local0
        Store (ABUF, Local0)

        // save Local0 object type value into Local1
        Store (ObjectType (Local0), Local1)

        // validate Local0 is a Buffer
        If (LNotEqual (Local1, 3)) // Buffer type is 3
        {
            Return (1) // failure
        }

        // store value returned by control method SUBR into Local0
        Store (SUBR (ABUF), Local0)

        // save Local0 object type value into Local1
        Store (ObjectType (Local0), Local1)

        // validate Local0 is a Buffer
        If (LNotEqual (Local1, 3)) // Buffer type is 3
        {

Return (2) // failure
        }

        // allocate buffer using Local1 as buffer size (run-time evaluation)
        Store (5, Local1)
        Name (BUFR, Buffer(Local1) {})

        // store value returned by control method SUBR into Local0
        Store (SUBR (BUFR), Local0)

        // save Local0 object type value into Local1
        Store (ObjectType (Local0), Local1)

        // validate Local0 is a Buffer
        If (LNotEqual (Local1, 3)) // Buffer type is 3

```



```

    {
        Return (3)    // failure
    }

// store BUFR Buffer into Local0
Store (BUFR, Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Buffer
If (LNotEqual (Local1, 3)) // Buffer type is 3
{
    Return (4)    // failure
}

// return Local0 Buffer
Return (Local0)
} // RBUF

Method (TEST)
{
    Store ("+++++++ RetBuf Test", Debug)

// store RBUF Buffer return value into Local0
Store (RBUF, Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Buffer
If (LNotEqual (Local1, 3)) // Buffer type is 3
{
    Return (10)    // failure
}
Else
{
    Return (0)    // success
}
} // TEST
} // RTBF

//
// test RetLVal.asl
//
// Test ReturnOp(Lvalue)
// This is required to support _PSR on IBM ThinkPad 560D and

```



```
//  _DCK on Toshiba Tecra 8000.
//

Device (GPE2)
{
    Method (_L03)
    {
        Store ("Method GPE2._L03 invoked", Debug)
        Return ()
    }

    Method (_E05)
    {
        Store ("Method
GPE2._E05 invoked", Debug)
        Return ()
    }
}

Device (PRW2)
{
    Name (_PRW, Package(2) {Package(2){\GPE2, 0x05}, 3})
}

Scope (\_GPE)
{
    Name (ACST, 0xFF)

    Method (_L08)
    {
        Store ("Method _GPE._L08 invoked", Debug)
        Return ()
    }

    Method (_E09)
    {
        Store ("Method _GPE._E09 invoked", Debug)
        Return ()
    }

    Method (_E11)
    {
        Store ("Method _GPE._E11 invoked", Debug)
        Notify (\PRW1, 2)
    }

    Method (_L22)

```



```

    {
        Store ("Method _GPE._L22 invoked", Debug)
        Return ()
    }

Method (_L33)
{
    Store ("Method _GPE._L33 invoked", Debug)
    Return ()
}

Method (_E64)
{
    Store ("Method _GPE._E64 invoked", Debug)
    Return ()
}

} // _GPE

Device (PRW1)
{
    Name (_PRW, Package(2)
{0x11, 3})
}

Device (PWRB)
{
    Name (_HID, EISAID("PNP0C0C"))
    Name (_PRW, Package(2) {0x33, 3})
}

Scope (\_SB) // System Bus
{ // _SB system bus

    Device (ACAD)
    { // ACAD: AC adapter device
        Name (_HID, "ACPI0003") // AC adapter device

        Name (_PCL, Package () {\_SB})

        OperationRegion (AREG, SystemIO, 0x0372, 2)
        Field (AREG, ByteAcc, NoLock, Preserve)
        {
            AIDX, 8,
            ADAT, 8
        }
        IndexField (AIDX, ADAT, ByteAcc, NoLock, Preserve)
    }
}

```



```

{
    , 1, // skips
    ACIN, 1,
    , 2, // skips
    CHAG, 1,
    , 3, // skips
    , 7, // skips
    ABAT, 1,
} // IndexField

Method (_PSR)
{
    Store (\_GPE.ACST, Local0)
    Store
    (ACIN, Local1)
    If (LNotEqual (\_GPE.ACST, Local1))
    {
        Store (Local1, \_GPE.ACST)
        // This Notify is commented because it causes a
        // method error when running on a system without the
        // specific device.
        // Notify (\_SB_.ACAD, 0)
    }
    Return (Local0)
} // _PSR

Method (_STA)
{
    Return (0x0F)
}

Method (_INI)
{
    Store (ACIN, \_GPE.ACST)
}
} // ACAD: AC adapter device

// test implicit return from control method
Method (DIS_, 1)
{
    Store (Arg0, Local0)
}

Device (RTL_V)
{
    // test implicit return inside nested if with explicit return of Lvalue
    Method (_DCK, 1)
    // Arg0: 1 == dock, 0 == undock

```



```

{
    If (Arg0)
    { // dock
        Store (0x87, Local0)

        If (Local0)
        {
            DIS_ (0x23)
            Return (1)
        }

        Return (0)
    } // dock
    Else
    { // undock
        Store (Arg0, Local0)

        If (Local0)
        {
            DIS_ (0x23)
            Return (1)
        }

        Return (0)
    } // undock
} // _DCK control method

Method (TEST)
{
    Store ("+++++++ RetLVal Test", Debug)

    // store _PSR return value into Local0
    Store (\_SB_.ACAD._PSR, Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0
    is a Number
    If (LNotEqual (Local1, 1)) // Number/Integer type is 1
    {
        Return (1) // failure
    }

    // test implicit return inside nested if with explicit return of Lvalue
    Store (_DCK (1), Local2)

```



```

    // save Local2 object type value into Local3
    Store (ObjectType (Local2), Local3)

    // validate Local2 is a Number
    If (LNotEqual (Local3, 1)) // Number/Integer type is 1
    {
        Return (2) // failure
    }

    If (LNotEqual (Local2, 1))
    {
        Return (3) // failure
    }

    Return (0) // success
} // TEST
} // RTLV
} // _SB system bus

//
// test RetPkg.asl
//
// Test ReturnOp(Package)
// This is required to support _PRT on Dell Optiplex Workstations (e.g. GX1)
//

Scope (\_SB) // System Bus
{ // _SB system bus
    Device(LNKA)
    {
        Name (_HID, EISAID("PNP0C0F")) // PCI interrupt link
        Name (_UID, 1)
    }
    Device(LNKB)
    {
        Name (_HID, EISAID("PNP0C0F")) // PCI interrupt link
        Name (_UID, 2)
    }
    Device(LNKC)
    {
        Name (_HID, EISAID("PNP0C0F")) // PCI interrupt link
        Name (_UID, 3)
    }
    Device(LNKD)
    {
        Name (_HID, EISAID("PNP0C0F")) // PCI interrupt link
        Name (_UID, 4)
    }
}

```



```

Device (PCI1)
{ // PCI1: Root PCI Bus
    Name (_HID, "PNP0A03") // Need _HID for root device (String format)
    Name (_ADR, 0x00000000)
    Name (_CRS, 0)

    Name (_PRT, Package ()
    {
        Package () {0x0004ffff, 0, LNKA, 0}, // Slot 1, INTA
        Package () {0x0004ffff, 1, LNKB, 0},
// Slot 1, INTB
        Package () {0x0004ffff, 2, LNKC, 0}, // Slot 1, INTC
        Package () {0x0004ffff, 3, LNKD, 0}, // Slot 1, INTD
        Package () {0x0005ffff, 0, \_SB_.LNKB, 0}, // Slot 2, INTA
        Package () {0x0005ffff, 1, \_SB_.LNKC, 0}, // Slot 2, INTB
        Package () {0x0005ffff, 2, \_SB_.LNKD, 0}, // Slot 2, INTC
        Package () {0x0006ffff, 3, \_SB_.LNKA, 0}, // Slot 2, INTD
        Package () {0x0006ffff, 0, LNKC, 0}, // Slot 3, INTA
        Package () {0x0006ffff, 1, LNKD, 0}, // Slot 3, INTB
        Package () {0x0006ffff, 2, LNKA, 0}, // Slot 3, INTC
        Package () {0x0006ffff, 3, LNKB, 0}, // Slot 3, INTD
    })

Device (PX40)
{ // Map f0 space, Start PX40
    Name (_ADR, 0x00070000) // Address+function.
}
} // PCI0:
Root PCI Bus

Device (RETP)
{
    Method (RPKG)
    { // RPKG: Return Package from local variable

        // store _PRT package into Local0
        Store (\_SB_.PCI1._PRT, Local0)

        // return Local0 Package
        Return (Local0)
    } // RPKG

    Method (TEST)
    {
        Store ("+++++++ RetPkg Test", Debug)

        // store RPKG package return value into Local0

```



```

Store (RPKG, Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Package
If (LNotEqual (Local1, 4)) // Package type is 4
    { Return (1) } // failure
Else
    { Return (0) } // success
} // TEST
} // RETP
} // _SB_

//
// test WhileRet.asl
//
// WhileRet.asl tests
// a ReturnOp nested in a IfOp nested in a WhileOp.
//
Device (WHLR)
{
    Name (LCNT, 0)
    Method (WIR)
    { // WIR: control method that returns inside of IfOp inside of WhileOp
        While (LLess (LCNT, 4))
        {
            If (LEqual (LCNT, 2))
            {
                Return (0)
            }

            Increment (LCNT)
        }

        Return (LCNT)
    } // WIR: control method that returns inside of IfOp inside of WhileOp

    Method (TEST)
    {
        Store ("+++++++ WhileRet Test", Debug)

        Store (WIR, Local0)

        Return (Local0)
    } // TEST
} // WHLR

```



```

//
// test AndOrOp.asl
//
//This code tests the bitwise AndOp and OrOp Operator terms
//
//Syntax of Andop term
//And - Bitwise And
//AndTerm := And(
// Source1, //TermArg=>Integer
// Source2, //TermArg=>Integer
// Result //Nothing | SuperName
//) => Integer
//Source1
//and Source2 are evaluated as integer data types,
// a bit-wise AND is performed, and the result is optionally
//stored into Result.
//
//
//Syntax of OrOp
//Or - Bit-wise Or
//OrTerm := Or(
// Source1, //TermArg=>Integer
// Source2 //TermArg=>Integer
// Result //Nothing | SuperName
//) => Integer
//Source1 and Source2 are evaluated as integer data types,
// a bit-wide OR is performed, and the result is optionally
//stored in Result
//
//
Device (ANDO)
{
    OperationRegion (TMEM, SystemMemory, 0xC4, 0x02)
    Field (TMEM, ByteAcc, NoLock, Preserve)
    {
        , 3,
        TOUD, 13
    }

    //Create System Memory Operation Region and field overlays
    OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {
        SMDW, 32, // 32-bit DWORD
        SMWD, 16, // 16-bit WORD
        SMBY, 8, // 8-bit BYTE
    } // Field(RAM)
}

```



```

//And with Byte
Data
  Name (BYT1, 0xff)
  Name (BYT2, 0xff)
  Name (BRSL, 0x00)

//And with Word Data
  Name (WRD1, 0xffff)
  Name (WRD2, 0xffff)
  Name (WRS�, 0x0000)

//And with DWord Data
  Name (DWD1, 0xffffffff)
  Name (DWD2, 0xffffffff)
  Name (DRSL, 0x00000000)

Method (ANDP)
{
  //Check with 1 And 1 on byte data
  And(BYT1, BYT2, BRSL)
  if(LNotEqual(BRSL,0xff))
  {Return(1)}

  //Check with 1 And 1 on Word data
  And(WRD1, WRD2, WRS�)
  if(LNotEqual(WRS�,0xffff))
  {
    Return (1)    // failure
  }

  //Check with 1 And 1 Dword
  And(DWD1, DWD2, DRSL)
  if(LNotEqual(DRSL,0xffffffff))
  {
    Return (1)    // failure
  }

  //Check with 0 And 0 on byte data
  Store(0x00,BYT1)
  Store(0x00,BYT2)
  Store(0x00,BRSL)
  And(BYT1, BYT2, BRSL)
  if(LNotEqual(BRSL,0x00))
  {
    Return (1)    // failure
  }

  //Check with 0 And 0 on Word data

```



```

Store (0x0000,WRD1)
Store (0x0000,WRD2)
Store (0x0000,WRSL)
And(WRD1, WRD2, WRSL)
if(LNotEqual(WRSL,0x0000))
{
    Return (1)    // failure
}

//Check with 0 And 0 Dword
Store (0x00000000,DWD1)
Store (0x00000000,DWD2)
Store (0x00000000,DRSL)
And(DWD1, DWD2, DRSL)
if(LNotEqual(DRSL,0x00000000))
{
    Return (1)    // failure
}

//Check with 1 And 0 on byte data
Store(0x55,BYT1)
Store(0xAA,BYT2)
Store(0x00,BRSL)
And(BYT1, BYT2, BRSL)
if(LNotEqual(BRSL,0x00))
{
    Return (1)    // failure
}

//Check with 1 And 0 on Word data
Store (0x5555,WRD1)
Store (0xAAAA,WRD2)
Store (0x0000,WRSL)
And(WRD1, WRD2, WRSL)
if(LNotEqual(WRSL,0x0000))
{
    Return (1)    // failure
}

//Check with 1 And 0 on Dword
Store (0x55555555,DWD1)
Store (0xAAAAAAAA,DWD2)
Store (0x00000000,DRSL)
And(DWD1, DWD2, DRSL)
if(LNotEqual(DRSL,0x00000000))
{
    Return (1)    // failure
}

```



```
}
```

```
Store (0x1FFF, TOUD)
```

```
Store (TOUD, Local0)
```

```
if(LNotEqual(Local0,0x1FFF))
```

```
{
```

```
    Return (1)    // failure
```

```
}
```

```
//TBD- Do We need to check for system memory data also for each test case ??
```

```
Return(0)
```

```
}//ANDP
```

```
Method (OROP)
```

```
{
```

```
    //Check with 1 Ored with 1 on byte data
```

```
    Store(0xff,BYT1)
```

```
    Store(0xff,BYT2)
```

```
    Store(0x00,BRSL)
```

```
    Or(BYT1, BYT2, BRSL)
```

```
    if(LNotEqual(BRSL,0xff))
```

```
{
```

```
    Return (1)    // failure
```

```
}
```

```
    //Check with 1 Ored with 1 on Word data
```

```
    Store(0xffff,WRD1)
```

```
    Store(0xffff,WRD2)
```

```
    Store(0x0000,WDSL)
```

```
    Or(WRD1, WRD2, WDSL)
```

```
    if(LNotEqual(WDSL,0xffff))
```

```
{
```

```
    Return (1)    // failure
```

```
}
```

```
    //Check with 1 Ored with 1 on Dword data
```

```
    Store(0xffffffff,DWD1)
```

```
    Store(0xffffffff,DWD2)
```

```
    Store(0x00000000,DRSL)
```

```
    Or(DWD1, DWD2, DRSL)
```

```
    if(LNotEqual(DRSL,0xffffffff))
```

```
{
```

```
    Return (1)    // failure
```

```
}
```



```

//Check with 0 Ored with 0 on byte data
Store(0x00,BYT1)
Store(0x00,BYT2)
Store(0x00,BRSL)
Or(BYT1, BYT2, BRSL)
if(LNotEqual(BRSL,0x00))
{
    Return (1)    // failure
}

```

```

//Check with 0 Ored with 0 on Word data
Store (0x0000,WRD1)
Store (0x0000,WRD2)
Store (0x0000,WDSL)
Or(WRD1, WRD2, WDSL)
if(LNotEqual(WDSL,0x0000))
{
    Return (1)    // failure
}

```

```

//Check with 0 Ored with 0 Dword data
Store (0x00000000,DWD1)
Store (0x00000000,DWD2)
Store (0x00000000,DRSL)
Or(DWD1, DWD2, DRSL)
if(LNotEqual(DRSL,0x00000000))
{
    Return (1)    // failure
}

```

```

//Check with 1 Ored with 0 on byte data
Store(0x55,BYT1)
Store(0xAA,BYT2)
Store(0x00,BRSL)
Or(BYT1, BYT2, BRSL)
if(LNotEqual(BRSL,0xff))
{
    Return (1)    // failure
}

```

```

//Check with 1 Ored with 0 on Word data
Store (0x5555,WRD1)
Store (0xAAAA,WRD2)
Store (0x0000,WDSL)
Or(WRD1, WRD2, WDSL)

```



```

if(LNotEqual(WRSL,0xffff))
{
    Return (1)    // failure
}

//Check with 1 Ored with 0 on Dword data
Store (0x55555555,DWD1)
Store (0xAAAAAAAA,DWD2)
Store (0x00000000,DRSL)
Or(DWD1, DWD2, DRSL)
if(LNotEqual(DRSL,0xffffffff))
{
    Return (1)    // failure
}

//TBD - Do We need to check for system memory data also for each test case ??

Return(0)

} //OROP

Method(TEST,, Serialized)
{
    Store ("+++++++ AndOrOp Test", Debug)

    Name(RSLT,1)
    //Call Andop method
    Store(ANDP,RSLT)
    if(LEqual(RSLT,1))
    {
        Return (RSLT)
    }

    //Call OrOp Method
    Store(OROP,RSLT)
    if(LEqual(RSLT,1))
    {
        Return(RSLT)
    }

    //
    // Return original conditions to allow iterative execution
    //
    Store(0xff,BYT1)
    Store(0xff,BYT2)
    Store(0x00,BRSL)
    Store (0xffff,WRD1)

```



```

    Store (0xffff,WRD2)
    Store (0x0000,WRSL)
    Store (0xffffffff,DWD1)
    Store (0xffffffff,DWD2)
    Store (0x00000000,DRSL)

    Return(0)
} //TEST
} //ANDO

//
// test BreakPnt.asl
//
// This code tests the BreakPoint opcode term. The syntax of BreakPoint Term is
// BreakPointTerm := BreakPoint
// Used for debugging, the Breakpoint opcode stops the execution and enters the AML debugger.
// In the non-debug version of the interpreter, BreakPoint is equivalent to Noop.
//
Device (BRKP)
{
    Name(CNT0,0)

    Method (BK1)
    {
        BreakPoint
        Return(0)
    }

    Method (TEST)
    {
        Store ("+++++++ BreakPnt Test", Debug)

        Store(0,CNT0)

        //Check BreakPoint statement
        While(LLess(CNT0,10))
        {
            Increment(CNT0)
        }

        //Check the BreakPoint statement
        If(LEqual(CNT0,10))
        {
            // BreakPoint
            Return(0)
        }

        //failed

```



```

        Return(1)
    }
}

//
// test AddSubOp.asl
//
Device (ADSU)
{
    // create System Memory Operation Region and field overlays
    OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {
        SMDW, 32, // 32-bit DWORD
        SMWD, 16, // 16-bit WORD
        SMBY, 8, // 8-bit BYTE
    } // Field(RAM)

    Method (TEST,, Serialized)
    {
        Store ("+++++++ AddSubOp Test",
Debug)

        Name (DWRD, 0x12345678)
        Name (WRD, 0x1234)
        Name (BYT, 0x12)

        // Test AddOp with DWORD data
        Store (0x12345678, DWRD)
        Add (DWRD, 7, DWRD)
        If (LNotEqual (DWRD, 0x1234567F))
        { Return (DWRD) }

        // Test AddOp with WORD data
        Add (WRD, 5, WRD)
        If (LNotEqual (WRD, 0x1239))
        { Return (WRD) }

        // Test AddOp with BYTE data
        Add (BYT, 3, BYT)
        If (LNotEqual (BYT, 0x15))
        { Return (BYT) }

        // Test SubtractOp with DWORD data
        Subtract (DWRD, 7, DWRD)
        If (LNotEqual (DWRD, 0x12345678))
        { Return (DWRD) }
    }
}

```



```

// Test SubtractOp with WORD data
Subtract (WRD, 3, WRD)
If (LNotEqual (WRD, 0x1236))
    { Return (WRD) }

// Test SubtractOp with BYTE data
Subtract
(BYT, 3, BYT)
If (LNotEqual (BYT, 0x12))
    { Return (BYT) }

// test AddOp with DWORD SystemMemory OpRegion
Store (0x01234567, SMDW)
Add (SMDW, 8, SMDW)
If (LNotEqual (SMDW, 0x0123456F))
    { Return (SMDW) }

// test SubtractOp with DWORD SystemMemory OpRegion
Subtract (SMDW, 7, SMDW)
If (LNotEqual (SMDW, 0x01234568))
    { Return (SMDW) }

// test AddOp with WORD SystemMemory OpRegion
Store (0x0123, SMWD)
Add (SMWD, 6, SMWD)
If (LNotEqual (SMWD, 0x0129))
    { Return (SMWD) }

// test SubtractOp with WORD SystemMemory OpRegion
Subtract (SMWD, 5, SMWD)
If (LNotEqual (SMWD, 0x0124))
    { Return (SMWD) }

// test AddOp with BYTE SystemMemory OpRegion
Store (0x01, SMBY)
Add (SMBY,
4, SMBY)
If (LNotEqual (SMBY, 0x05))
    { Return (SMBY) }

// test SubtractOp with BYTE SystemMemory OpRegion
Subtract (SMBY, 3, SMBY)
If (LNotEqual (SMBY, 0x02))
    { Return (SMBY) }

```



```

    Return (0)
  } // TEST
} // ADSU

//
// test IncDecOp.asl
//
Device (INDC)
{
  // create System Memory Operation Region and field overlays
  OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
  Field (RAM, AnyAcc, NoLock, Preserve)
  {
    SMDW, 32, // 32-bit DWORD
    SMWD, 16, // 16-bit WORD
    SMBY, 8, // 8-bit BYTE
  } // Field(RAM)

  Method (TEST, Serialized)
  {
    Store ("+++++++ IncDecOp Test", Debug)

    Name (DWRD, 0x12345678)
    Name (WRD, 0x1234)
    Name (BYT, 0x12)

    // Test IncrementOp with DWORD data
    Store (0x12345678, DWRD)

    Increment (DWRD)
    If (LNotEqual (DWRD, 0x12345679))
    { Return (DWRD) }

    // Test IncrementOp with WORD data
    Increment (WRD)
    If (LNotEqual (WRD, 0x1235))
    { Return (WRD) }

    // Test IncrementOp with BYTE data
    Increment (BYT)
    If (LNotEqual (BYT, 0x13))
    { Return (BYT) }

    // Test DecrementOp with DWORD data
    Decrement (DWRD)
    If (LNotEqual (DWRD, 0x12345678))
    { Return (DWRD) }
  }
}

```



```

// Test DecrementOp with WORD data
Decrement (WRD)
If (LNotEqual (WRD, 0x1234))
    { Return (WRD) }

// Test DecrementOp with BYTE data
Decrement (BYT)
If (LNotEqual (BYT, 0x12))
    { Return (BYT) }

// test IncrementOp with DWORD SystemMemory OpRegion
Store (0x01234567, SMDW)

Increment (SMDW)
If (LNotEqual (SMDW, 0x01234568))
    { Return (SMDW) }

// test DecrementOp with DWORD SystemMemory OpRegion
Decrement (SMDW)
If (LNotEqual (SMDW, 0x01234567))
    { Return (SMDW) }

// test IncrementOp with WORD SystemMemory OpRegion
Store (0x0123, SMWD)
Increment (SMWD)
If (LNotEqual (SMWD, 0x0124))
    { Return (SMWD) }

// test DecrementOp with WORD SystemMemory OpRegion
Decrement (SMWD)
If (LNotEqual (SMWD, 0x0123))
    { Return (SMWD) }

// test IncrementOp with BYTE SystemMemory OpRegion
Store (0x01, SMBY)
Increment (SMBY)
If (LNotEqual (SMBY, 0x02))
    { Return (SMBY) }

// test DecrementOp with BYTE SystemMemory OpRegion
Decrement (SMBY)
If (LNotEqual
(SMBY, 0x01))
    { Return (SMBY) }

```



```

        Return (0)
    } // TEST
} // INDC

//
// test LOps.asl
//
//This source tests all the logical operators. Logical operators in ASL are as follows.
//LAnd, LEqual, LGreater, LLess, LNot, LNotEqual, LOr.
// Success will return 0 and failure will return a non zero number. Check the source code for
// non zero number to find where the test failed

```

Device (LOPS)

```

{
    //Create System Memory Operation Region and field overlays
    OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {
        SMDW, 32, // 32-bit DWORD
        SMWD, 16, // 16-bit WORD
        SMBY, 8, // 8-bit BYTE
    } // Field(RAM)

```

//And with Byte Data

Name (BYT1, 0xff)

Name (BYT2, 0xff)

Name (BRSL, 0x00)

//And with Word Data

Name (WRD1, 0xffff)

Name (WRD2, 0xffff)

Name (WRS�, 0x0000)

//And with DWord Data

Name (DWD1, 0xffffffff)

Name (DWD2, 0xffffffff)

Name (DRSL, 0x00000000)

Name(RSLT,1)

Method (ANDL,2) // Test Logical And

```

{
    //test with the arguments passed
    if(LEqual(Arg0,Arg1))
    { Store(LAnd(Arg0,Arg1),RSLT)
      if(LNotEqual(Ones,RSLT))
      {Return(1)}
    }
}

```



```

//test with he locals
Store(Arg0,Local0)
Store(Arg1,Local1)

if(LEqual(Local0,Local1))
{
    Store(LAnd(Local0,Local1),RSLT)
    if(LNotEqual(Ones,RSLT))
        {Return(12)}
}

//test with BYTE data
if(LEqual(BYT1,BYT2))
{ Store(LAnd(BYT1,BYT2),BRSL)
    if(LNotEqual(Ones,BRSL))
        {Return(13)}
}

//test with WORD data
if(LEqual(WRD1,WRD2))
{ Store(LAnd(WRD1,WRD2),WRSL)
    if(LNotEqual(Ones,WRSL))
        {Return(14)}
}

//test with DWORD data
if(LEqual(DWD1,DWD2))
{ Store(LAnd(DWD1,DWD2),DRSL)
    if(LNotEqual(Ones,DRSL))
        {Return(15)}
}

//Test for system memory data for each test case.

Store(0xff,BYT1)
Store(0xff,SMBY)
Store(0x00,BRSL)

//test with BYTE system memory data
if(LEqual(BYT1,SMBY))
{ Store(LAnd(BYT1,SMBY),BRSL)
    if(LNotEqual(Ones,BRSL))
        {Return(16)}
}

Store (0xffff,WRD1)
Store(0xffff,SMWD)

```



```

Store(0x0000,WRSL)
//test with WORD system memory data
if(LEqual(WRD1,SMWD))
{ Store(LAnd(WRD1,SMWD),WRSL)
  if(LNotEqual(Ones,WRSL))
  {Return(17)}
}

Store(0x000000,DRSL)

Store (0xfffff,DWD1)
Store(0xfffff,SMDW)

//test with DWORD system memory data
if(LEqual(DWD1,SMDW))
{ Store(LAnd(DWD1,SMDW),DRSL)
  if(LNotEqual(Ones,DRSL))
  {Return(18)}
}

Return(0)

} //ANDL

//Test the LOr Operator

Method (ORL_,2)
{ //ORL_

  //test with the arguments passed
  if(LEqual(Arg0,Arg1))
  {
    Store(LOr(Arg0,Arg1),RSLT)
    if(LNotEqual(Ones,RSLT))
    {
      Return(21)
    }
  }

  //test with he locals
  Store(Arg0,Local0)
  Store(Arg1,Local1)

  if(LEqual(Local0,Local1))
  {
    Store(LOr(Local0,Local1),RSLT)
    if(LNotEqual(Ones,RSLT))
    { Return(22)}
  }
}

```



```

}

//Check with 1 LOred with 0 on byte data
Store(0xff,BYT1)
Store(0x00,BYT2)
Store(0x00,BRSL)

if(LNotEqual(BYT1, BYT2))
{
    Store(LOr(BYT1, BYT2), BRSL)
    if(LNotEqual(Ones,BRSL))
    {Return(23)}
}

//Check with 1 LOred with 0 on WORD data
Store(0xffff,WRD1)
Store(0x0000,WRD2)
Store(0x0000,WRSL)

if(LNotEqual(WRD1, WRD2))
{
    Store(LOr(WRD1, WRD2), WRSL)
    if(LNotEqual(Ones,WRSL))
    {Return(24)}
}

//Check with 1 LOred with 0 on DWORD data
Store(0xffffffff,DWD1)
Store(0x00000000,DWD2)
Store(0x00000000,DRSL)

if(LNotEqual(DWD1, DWD2))
{
    Store(LOr(DWD1, DWD2), DRSL)
    if(LNotEqual(Ones,DRSL))
    {Return(25)}
}

Store(0x00,BYT1)
Store(0xff,SMBY)
Store(0x00,BRSL)

//test with BYTE system memory data
if(LEqual(BYT1,SMBY))
{ Store(LOr(BYT1,SMBY),BRSL)
    if(LNotEqual(Ones,BRSL))
    {Return(26)}
}

```



```
Store(0x0000,WRD1)
Store(0xffff,SMWD)
Store(0x0000,WRSL)
```

```
//test with WORD system memory data
if(LEqual(WRD1,SMWD))
{ Store(LOr(WRD1,SMWD),WRSL)
  if(LNotEqual(Ones,WRSL))
  {Return(27)}
}
```

```
Store(0x00000000,DWD1)
Store(0xffffffff,SMDW)
Store(0x00000000,DRSL)
```

```
//test with DWORD system memory data
if(LEqual(DWD1,SMDW))
{ Store(LAnd(DWD1,SMDW),DRSL)
  if(LNotEqual(Ones,DRSL))
  {Return(28)}
}
Return(0)
```

```
}//ORL_
```

```
//This method tests LGreater and LNot operator
Method(LSGR,2)
{//LSGR
```

```
    //Test on arguments
passed
```

```
//in test data, Arg1 > Arg0
if(LEqual(Ones,LNot(LGreater(Arg1,Arg0))))
{Return(31)}
```

```
//test LLessEqual
if(LEqual(Ones,LNot(LGreaterEqual(Arg1,Arg0))))
{Return(32)}
```

```
if(LEqual(Ones,LLess(Arg1,Arg0)))
{Return(33)}
```

```
//test LLessEqual
if(LEqual(Ones,LLessEqual(Arg1,Arg0)))
{Return(34)}
```



```

Store(Arg0,Local0)
Store(Arg1,Local1)

//test with the locals
if(LNot(LGreater(Local1,Local0)))
    {Return(35)}

//test on Byte data
Store(0x12,BYT1)
Store(0x21,BYT2)

if(LNot(LGreater(BYT2,BYT1)))
    {Return(36)}

if(LNot(LLess(BYT1,BYT2)))
    {Return(37)}

//test LGreaterEqual with byte data
if(LNot(LGreaterEqual(BYT2,BYT1)))
    {Return(38)}

//test LLessEqual byte data

if(LNot(LLessEqual(BYT1,BYT2)))
    {Return(39)}

//test on Word data
Store(0x1212,WRD1)
Store(0x2121,WRD2)

if(LNot(LGreater(WRD2,WRD1)))
    {Return(310)}

if(LNot(LLess(WRD1,WRD2)))
    {Return(311)}

//Test LGreaterEqual with Word Data
if(LNot(LGreaterEqual(WRD2,WRD1)))
    {Return(312)}

//Test LLessEqual with Word Data
if(LNot(LLessEqual(WRD1,WRD2)))
    {Return(313)}

//test on DWord data

```



```

Store(0x12121212,DWD1)
Store(0x21212121,DWD2)

if(LNot(LGreater(DWD2,DWD1)))
    {Return(314)}

if(LNot(LLess(DWD1,DWD2)))
    {Return(315)}

//Test LGreaterEqual with Dword
if(LNot(LGreaterEqual(DWD2,DWD1)))
    {Return(316)}

//Test LLessEqual DWord
if(LNot(LLessEqual(DWD1,DWD2)))
    {Return(317)}

Return(0)
} //LSGR

//The test method
Method(TEST)
{
    Store ("+++++++ LOps Test", Debug)

    Store(0,RSLT)
    //Call LAndOp method
    Store(ANDL(2,2),RSLT)
    if(LNotEqual(RSLT,0))
        {Return(RSLT)}

    //Call LOrOp Method
    Store(ORL_(5,5),RSLT)
    if(LNotEqual(RSLT,0))
        {Return(RSLT)}

    //Call LSGR Method
    Store(LSGR(5,7),RSLT)
    if(LNotEqual(RSLT,0))
        {Return(RSLT)}

    Return(0)
} //TEST
} //LOPS

//
// test FdSetOps.asl

```



```

//
// FindSetLeftBit - Find Set Left Bit
// FindSetLeftBitTerm := FindSetLeftBit
// ( Source, //TermArg=>Integer
//   Result //Nothing | SuperName
// )=> Integer
// Source is evaluated as integer data type, and the one-based bit location of
// the first MSb (most significant set bit) is optionally stored into Result.
//
// The result of 0 means no bit was set, 1 means the left-most bit set is the
// first bit, 2 means the left-most bit set is the second bit, and so on.
// FindSetRightBit - Find Set Right Bit

// FindSetRightBitTerm := FindSetRightBit
// ( Source, //TermArg=>Integer
//   Result //Nothing | SuperName
// )=> Integer
// Source is evaluated as integer data type, and the one-based bit location of
// the most LSb (least significant set bit) is optionally stored in Result.
// The result of 0 means no bit was set, 32 means the first bit set is the
// 32nd bit, 31 means the first bit set is the 31st bit, and so on.

// If the Control method is success Zero is returned. Otherwise a non-zero
// number is returned.
//
Device (FDSO)
{ // FDSO

    // Create System Memory Operation Region and field overlays
    OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {
        SMDW, 32, // 32-bit DWORD
        SMWD, 16, // 16-bit WORD
        SMBY, 8, // 8-bit BYTE
    } // Field(RAM)

    // Byte Data
    Name (BYT1, 1)
    Name (BRSL, 0x00)

    // Word Data
    Name (WRD1, 0x100)
    Name (WRSL, 0x0000)

    // DWord Data
    Name (DWD1, 0x10000)
    Name (DRSL, 0x00000000)

```



Name (RSLT, 1)

Name (CNTR, 1)

Method (SHFT,2)

// Arg0 is the actual data and Arg1 is the bit position

{ // SHFT

Store (Arg0, Local0)

Store (Arg1, Local1)

FindSetLeftBit (Arg0, BRSL)

If (LNotEqual (BRSL, Arg1))

{ Return (0x11) }

If (LNotEqual (Arg0, Local0))

{ Return (0x12) }

FindSetLeftBit (Local0, BRSL)

If (LNotEqual (BRSL, Local1))

{ Return (0x13) }

If (LNotEqual (Arg0, Local0))

{ Return (0x14) }

// test the byte

value for SetLeftBit

Store (7, BYT1)

FindSetLeftBit (BYT1, BRSL)

If (LNotEqual (BRSL, 3))

{ Return (0x15) }

If (LNotEqual (BYT1, 7))

{ Return (0x16) }

Store (1, BYT1)

Store (1, CNTR)

While (LLessEqual (CNTR, 8))

{ // FindSetLeftBit check loop for byte data

FindSetLeftBit (BYT1, BRSL)

If (LNotEqual (BRSL, CNTR))

{ Return (0x17) }

// Shift the bits to check the same

ShiftLeft (BYT1, 1, BYT1)

Increment (CNTR)

} // FindSetLeftBit check loop for byte data

// Check BYTE value for SetRightBit

Store (7, BYT1)

FindSetRightBit (BYT1, BRSL)

If (LNotEqual (BRSL, 1))



```

    { Return (0x21) }
If (LNotEqual (BYT1, 7))
    { Return (0x22) }

```

```

Store
(1, CNTR)
Store (0xFF, BYT1)
While (LLessEqual (CNTR, 8))
{ // FindSetRightBit check loop for byte data
    FindSetRightBit (BYT1, BRSL)
    If (LNotEqual (BRSL, CNTR))
        { Return (0x23) }

    ShiftLeft (BYT1, 1, BYT1)
    Increment (CNTR)
} // FindSetRightBit check loop for byte data

```

```

// Test Word value for SetLeftBit
Store (9, CNTR)
Store (0x100, WRD1)
While (LLessEqual (CNTR, 16))
{
    // FindSetLeftBit check loop for Word data
    FindSetLeftBit (WRD1, WRS�)
    If (LNotEqual (WRS�, CNTR))
        { Return (0x31) }

    // Shift the bits to check the same
    ShiftLeft (WRD1, 1, WRD1)
    Increment (CNTR)
} // FindSetLeftBit check loop for Word data

```

```

// Check Word value for SetRightBit
Store (9, CNTR)
Store (0xFF00, WRD1)
While (LLessEqual (CNTR, 16))
{
    // FindSetRightBit check loop for Word data
    FindSetRightBit (WRD1, WRS�)
    If (LNotEqual (WRS�, CNTR))
        { Return (0x32) }

    ShiftLeft (WRD1, 1, WRD1)
    Increment (CNTR)
} // FindSetRightBit check loop for Word data

```

```

// Test the DWord value for SetLeftBit

```



```

Store (17, CNTR)
Store (0x10000, DWD1)
While (LLessEqual (CNTR, 32))
{
    // FindSetLeftBit check loop for Dword
    FindSetLeftBit (DWD1, DRSL)
    If (LNotEqual (DRSL, CNTR))
        { Return (0x41) }

    // Shift the bits to check the same
    ShiftLeft (DWD1, 1, DWD1)
    Increment (CNTR)
} // FindSetLeftBit check loop for Dword

// Check DWord value for SetRightBit
Store (17, CNTR)
Store (0xFFFF0000, DWD1)
While (LLessEqual (CNTR, 32))
{ // FindSetRightBit Check loop for DWORD
    FindSetRightBit (DWD1, DRSL)
    If (LNotEqual (DRSL, CNTR))
        { Return (0x42) }

    ShiftLeft (DWD1, 1, DWD1)
    Increment (CNTR)
} // FindSetRightBit Check loop for DWORD

Return (0)
} // SHFT

// Test method called from amlexec
Method (TEST)
{ // TEST

    Store ("+++++++ FdSetOps Test", Debug)

    Store (SHFT (0x80, 8), RSLT)
    If (LNotEqual (RSLT, 0))
        { Return (RSLT) }

    Return (0) // pass
} // TEST
} // Device FDSO

//
// test MulDivOp.asl
//
Device (MLDV)

```



```

{
    // create System Memory Operation Region and field overlays
    OperationRegion
(RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {
        SMDW, 32, // 32-bit DWORD
        SMWD, 16, // 16-bit WORD
        SMBY, 8, // 8-bit BYTE
    } // Field(RAM)

    Method (TEST,, Serialized)
    {
        Store ("+++++++ MulDivOp Test", Debug)

        Name (RMDR, 0)
        Name (DWRD, 0x12345678)
        Name (WRD, 0x1234)
        Name (BYT, 0x12)

        // Test MultiplyOp with DWORD data
        Store (0x12345678, DWRD)
        Multiply (DWRD, 3, DWRD)
        If (LNotEqual (DWRD, 0x369D0368))
            { Return (DWRD) }

        // Test MultiplyOp with WORD data
        Multiply (WRD, 4, WRD)
        If (LNotEqual (WRD, 0x48D0))
            { Return (WRD) }

        // Test MultiplyOp with BYTE data
        Multiply (BYT, 5, BYT)
        If (LNotEqual (BYT, 0x5A))
            { Return (BYT) }

        // Test DivideOp with DWORD data
        Divide (DWRD, 3, DWRD, RMDR)
        If (LNotEqual (DWRD, 0x12345678))
            { Return (DWRD) }
        If (LNotEqual (RMDR, 0))
            { Return (RMDR) }

        // Test DivideOp with WORD data
        Divide (WRD, 4, WRD, RMDR)
        If (LNotEqual (WRD, 0x1234))
            { Return (WRD) }
    }
}

```



```

If (LNotEqual (RMDR, 0))
    { Return (RMDR) }

// Test DivideOp with BYTE data
Divide (BYT, 5, BYT, RMDR)
If (LNotEqual (BYT, 0x12))
    { Return (BYT) }
If (LNotEqual (RMDR, 0))
    { Return (RMDR) }

// test MultiplyOp with DWORD SystemMemory OpRegion
Store (0x01234567, SMDW)
Multiply (SMDW, 2, SMDW)
If (LNotEqual (SMDW, 0x02468ACE))
    { Return (SMDW) }

// test DivideOp with DWORD SystemMemory
OpRegion
Divide (SMDW, 3, SMDW, RMDR)
If (LNotEqual (SMDW, 0x00C22E44))
    { Return (SMDW) }
If (LNotEqual (RMDR, 2))
    { Return (RMDR) }

// test MultiplyOp with WORD SystemMemory OpRegion
Store (0x0123, SMWD)
Multiply (SMWD, 3, SMWD)
If (LNotEqual (SMWD, 0x369))
    { Return (SMWD) }

// test DivideOp with WORD SystemMemory OpRegion
Divide (SMWD, 2, SMWD, RMDR)
If (LNotEqual (SMWD, 0x01B4))
    { Return (SMWD) }
If (LNotEqual (RMDR, 1))
    { Return (RMDR) }

// test MultiplyOp with BYTE SystemMemory OpRegion
Store (0x01, SMBY)
Multiply (SMBY, 7, SMBY)
If (LNotEqual (SMBY, 0x07))
    { Return (SMBY) }

// test DivideOp with BYTE SystemMemory OpRegion
Divide (SMBY, 4, SMBY, RMDR)

```



```

        If (LNotEqual (SMBY, 0x01))
        {   Return (SMBY)   }
        If (LNotEqual (RMDR, 3))
        {   Return (RMDR)   }

        Return (0)
    } // TEST
} // MLDV

//
// test NBitOps.asl
//
//NAnd - Bit-wise NAnd
//NAndTerm := NAnd(
// Source1, //TermArg=>Integer
// Source2 //TermArg=>Integer
// Result //Nothing | SuperName
//) => Integer
//Source1 and Source2 are evaluated as integer data types, a bit-wise NAND is performed, and the result is
optionally
//stored in Result.

//NOr - Bitwise NOR
//NOrTerm := NOR(
// Source1, //TermArg=>Integer
// Source2 //TermArg=>Integer
// Result //Nothing | SuperName
//) => Integer
//Source1 and Source2 are evaluated as integer data types, a bit-wise NOR is performed, and the result is optionally
//stored in Result.

// Not - Not
//NotTerm := Not(
// Source, //TermArg=>Integer
// Result //Nothing | SuperName
//) => Integer
//Source1 is evaluated as an integer data type, a bit-wise
NOT is performed, and the result is optionally stored in
//Result.

//If the Control method is success Zero is returned else a non-zero number is returned

Device (NBIT)
{//NBIT

    //Create System Memory Operation Region and field overlays
    OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {

```



```

SMDW, 32, // 32-bit DWORD
SMWD, 16, // 16-bit WORD
SMBY, 8, // 8-bit BYTE
} // Field(RAM)

```

```

//And with Byte Data
Name (BYT1, 0xff)
Name (BYT2, 0xff)
Name (BRSL, 0x00)

```

```

//And with Word Data
Name (WRD1, 0xffff)
Name (WRD2, 0xffff)
Name (WRSL, 0x0000)

```

```

//And with DWord Data
Name (DWD1, 0xffffffff)
Name (DWD2, 0xffffffff)
Name (DRSL, 0x00000000)
Name(RSLT,1)

```

```

Name(ARSL,0x00)
Name(LRSL,0x00)

```

```

Method(NNDB,2)
{ //NNDB

```

```

    Store(0xffffffff,SMDW)
    Store(0xffff,SMWD)
    Store(0xff,SMBY)

```

```

    NAnd(Arg0,Arg1,ARSL)
    if(LNotEqual(ARSL,0xffffffffd))
    {Return(11)}

```

```

    Store(Arg0,local0)
    Store(Arg1,Local1)

```

```

    NAnd(Local0,Local1,LRSL)
    if(LNotEqual(LRSL,0xffffffffd))
    {Return(12)}

```

```

//Byte data
NAnd(BYT1,BYT2,BRSL)

```



```

if(LNotEqual(BRSL,0xffffffff00))
{Return(13)}

//Word Data
NAnd(WRD1,WRD2,WRSL)
if(LNotEqual(WRSL,0xffff0000))
{Return(14)}

//DWord Data
NAnd(DWD1,DWD2,DRSL)
if(LNotEqual(DRSL,0x00000000))
{Return(15)}

//Byte data
NAnd(SMBY,0xff,BRSL)
if(LNotEqual(BRSL,0xffffffff00))
{Return(16)}

//Word Data
NAnd(SMWD,0xffff,WRSL)
if(LNotEqual(WRSL,0xffff0000))
{Return(17)}

//DWord Data
NAnd(SMDW,0xffffffff,DRSL)
if(LNotEqual(DRSL,0x00000000))
{Return(18)}

Return(0)

} //NNDB

Method(NNOR,2)
{ //NNOR

NOr(Arg0,Arg1,ARSL)
if(LNotEqual(ARSL,0xffffffffd))
{Return(21)}

Store(Arg0,local0)
Store(Arg1,Local1)

NOr(Local0,Local1,LRSL)
if(LNotEqual(LRSL,0xffffffffd))
{Return(22)}

//Byte data

```



```

NOr(BYT1,BYT2,BRSL)
if(LNotEqual(BRSL,0xffffffff00))
{Return(23)}

//Word Data
NOr(WRD1,WRD2,WRS�)
if(LNotEqual(WRS�,0xffff0000))
{Return(24)}

//DWord Data
NOr(DWD1,DWD2,DRSL)
if(LNotEqual(DRSL,0x00000000))
{Return(25)}

//System Memory Byte data
NOr(SMBY,0xff,BRSL)
if(LNotEqual(BRSL,0xffffffff00))
{Return(26)}

//System Memory Word Data
NOr(SMWD,0xffff,WRS�)
if(LNotEqual(WRS�,0xffff0000))
{Return(27)}

//System Memory DWord Data
NOr(SMDW,0xffffffff,DRSL)
if(LNotEqual(DRSL,0x00000000))
{Return(28)}

Return(0)

} //NNOR

Method(NNOT,2)
{ //NNOT

Or(Arg0,Arg1,ARSL)
Not(ARSL,ARSL)
if(LNotEqual(ARSL,0xffffffffd))
{Return(31)}

Store(Arg0,local0)
Store(Arg1,Local1)

Or(Local0,Local1,LRSL)
Not(LRSL,LRSL)
if(LNotEqual(LRSL,0xffffffffd))
{Return(32)}

```



```

//Byte data
Or(BYT1,BYT2,BRSL)
Not(BRSL,BRSL)
if(LNotEqual(BRSL,0xffffffff00))
{Return(33)}

//Word Data
Or(WRD1,WRD2,WRSL)
Not(WRSL,WRSL)
if(LNotEqual(WRSL,0xffff0000))
{Return(34)}

//DWord Data
Or(DWD1,DWD2,DRSL)
Not(DRSL,DRSL)
if(LNotEqual(DRSL,0x00000000))
{Return(35)}

//System Memory Byte data
Or(SMBY,0xff,BRSL)
Not(BRSL,BRSL)
if(LNotEqual(BRSL,0xffffffff00))
{Return(36)}

//System Memory Word Data
Or(SMWD,0xffff,WRSL)
Not(WRSL,WRSL)
if(LNotEqual(WRSL,0xffff0000))
{Return(37)}

//System Memory DWord Data
Or(SMDW,0xffffffff,DRSL)
Not(DRSL,DRSL)
if(LNotEqual(DRSL,0x00000000))
{Return(38)}

Return(0)
} //NNOT

Method(TEST)
{

Store ("+++++++ NBitOps Test", Debug)

Store(NNDB(2,2),RSLT)

```



```

        if(LNotEqual(RSLT,0))
            {Return(RSLT)}

        Store(NNOR(2,2),RSLT)
        if(LNotEqual(RSLT,0))
            {Return(RSLT)}

    Store(NNOT(2,2),RSLT)
        if(LNotEqual(RSLT,0))
            {Return(RSLT)}

    Return(0)
}

} //Device NBIT

//
// test ShftOp.asl
//
//ShiftRightTerm := ShiftRight(
// Source, //TermArg=>Integer
// ShiftCount //TermArg=>Integer
// Result //Nothing | SuperName
//) => Integer
//Source and ShiftCount are evaluated as integer data types. Source is shifted right with the most significant bit
//zeroed ShiftCount times. The result is optionally stored into Result.

//ShiftLeft(
// Source, //TermArg=>Integer
// ShiftCount //TermArg=>Integer
// Result //Nothing | SuperName
//) => Integer
//Source and ShiftCount are evaluated as integer data types. Source is shifted left with the least significant
//bit zeroed ShiftCount times. The result is optionally stored into Result.

//If the Control method is success Zero is returned else a non-zero number is returned
Device (SHFT)
{ //SHFT

    //Create System Memory Operation Region and field overlays
    OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {
        SMDW, 32, // 32-bit DWORD
        SMWD, 16, // 16-bit WORD
        SMBY, 8, // 8-bit BYTE
    }

```



```

} // Field(RAM)

Name(SHFC,0x00)

//And with Byte Data
Name (BYT1, 0xff)
Name (BRSL, 0x00)

//And with Word Data
Name (WRD1, 0xffff)
Name (WRS�, 0x0000)

//And with DWord Data
Name (DWD1, 0xffffffff)
Name (DRSL, 0x00000000)

Name(RSLT,1)

Name(ARSL,0x00)
Name(LRSL,0x00)

Method(SLFT,2)
{ //SLFT

    Store(0xffffffff,SMDW)
    Store(0xffff,SMWD)
    Store(0xff,SMBY)

    //Arg0-> 2 & Arg1->2
    ShiftLeft(Arg0,Arg1,ARSL)
    if(LNotEqual(ARSL,8))
    {Return(11)}

    Store(Arg0,local0)
    Store(Arg1,Local1)

    //Local0->8 and Local1->2
    ShiftLeft(Local0,Local1,LRSL)
    if(LNotEqual(LRSL,8))
    {Return(12)}

    Store(2,SHFC)
    //Byte data
    ShiftLeft(BYT1,SHFC,BRSL)
    if(LNotEqual(BRSL,0x3FC))
    {Return(13)}

```



```

Store(4,SHFC)
//Word Data
ShiftLeft(WRD1,SHFC,WRSL)
if(LNotEqual(WRSL,0xFFFFF0))
{Return(14)}

Store(8,SHFC)
//DWord Data
ShiftLeft(DWD1,SHFC,DRSL)
if(LNotEqual(DRSL,0xFFFFFFFF00))
{Return(15)}

//System Memory Byte data
Store(4,SHFC)
ShiftLeft(SMBY,SHFC,BRSL)
if(LNotEqual(BRSL,0xFF0))
{Return(16)}

//Word Data
Store(4,SHFC)
ShiftLeft(SMWD,SHFC,WRSL)
if(LNotEqual(WRSL,0xffff0))
{Return(17)}

//DWord Data
Store(8,SHFC)
ShiftLeft(SMDW,SHFC,DRSL)

if(LNotEqual(DRSL,0xFFFFFFFF00))
{Return(18)}

Return(0)

} //SLFT

Method(SRGT,2)
{ //SRGT
//And with Byte Data
Store (0xff,BYT1)
Store (0x00,BRSL)

//And with Word Data
Store (0xffff,WRD1)
Store (0x0000,WRSL)

//And with DWord Data

```



```

Store(0xffffffff,DWD1)
Store (0x00000000,DRSL)

//Reinitialize the result objects
Store(0x00,ARSL)
Store(0x00,LDSL)

Store(0xffffffff,SMDW)
Store(0xffff,SMWD)
Store(0xff,SMBY)

//Arg0-> 2 & Arg1->2
ShiftRight(Arg0,Arg1,ARSL)
if(LNotEqual(ARSL,0))
{Return(21)}

Store(Arg0,local0)
Store(Arg1,Local1)

//Local0->8 and Local1->2
ShiftRight(Local0,Local1,LDSL)
    if(LNotEqual(LDSL,0))
    {Return(22)}

Store(2,SHFC)
//Byte data
ShiftRight(BYT1,SHFC,BRSL)
if(LNotEqual(BRSL,0x3F))
    {Return(23)}

Store(4,SHFC)
//Word Data
ShiftRight(WRD1,SHFC,WRSL)
if(LNotEqual(WRSL,0xFFFF))
    {Return(24)}

Store(8,SHFC)
//DWord Data
ShiftRight(DWD1,SHFC,DRSL)
if(LNotEqual(DRSL,0xFFFFFFFF))
    {Return(25)}

//System Memory Byte data
Store(4,SHFC)
ShiftRight(SMBY,SHFC,BRSL)
if(LNotEqual(BRSL,0xF))
    {Return(26)}

```



```

//Word Data
Store(4,SHFC)
ShiftRight(SMWD,SHFC,WDSL)
if(LNotEqual(WDSL,0xFFFF))
{Return(27)}

//DWord Data
Store(8,SHFC)
ShiftRight(SMDW,SHFC,DRSL)
if(LNotEqual(DRSL,0xFFFFFFFF))
{Return(28)}

Return(0)
} //SRGT

//Test method called from
amlexec
Method(TEST)
{
    Store ("+++++++ ShftOp Test", Debug)

    Store(SLFT(2,2),RSLT)
    if(LNotEqual(RSLT,0))
        {Return(RSLT)}
    Store(SRGT(2,2),RSLT)
    if(LNotEqual(RSLT,0))
        {Return(RSLT)}
    Return(0)
}

} //Device SHFT

//
// test Xor.asl and slightly modified
//
//This code tests the XOR opcode term
//Syntax of XOR term
//    XOr(
//        Source1 //TermArg=>BufferTerm
//        Source2 //TermArg=>Integer
//        Result //NameString
//    )
// "Source1" and "Source2" are evaluated as integers, a bit-wise XOR is performed, and the result is optionally stored
// in
// Result
Device (XORD)
{
    //This Method tests XOr operator for all the data types i.e. BYTE, WORD and DWORD

```



```

Method (TEST,, Serialized)
{
    Store ("+++++++ Xor Test", Debug)

    //Overlay in system memory

    OperationRegion (RAM, SystemMemory, 0x800000, 256)
    Field (RAM, ByteAcc, NoLock, Preserve)
    {
        RES1, 1, //Offset
        BYT1, 8, //First BYTE
        BYT2, 8, //Second BYTE
        RBYT, 8, //Result Byte
        RES2, 1, //Offset
        WRD1, 16, //First WORD field
        WRD2, 16, //Second WORD field
        RWRD, 16, //RSLT WORD field
        RES3, 1, //Offset
        DWD1, 32, //First Dword
        DWD2, 32, //Second Dword
        RDWD, 32, //Result Dword
        RES4, 1, //Offset
    }

    // Store bits in the single bit fields for checking
    // at the end
    Store(1, RES1)
    Store(1, RES2)
    Store(1, RES3)
    Store(1, RES4)

    // Check the stored single bits
    if(LNotEqual(RES1, 1))
    {
        Return(1)
    }

    if(LNotEqual(RES2, 1))
    {
        Return(1)
    }

    if(LNotEqual(RES3, 1))
    {
        Return(1)
    }

    if(LNotEqual(RES4, 1))

```



```

{
    Return(1)
}

//*****
// (BYT1) Bit1 ->0 and (BYT2)Bit2 -> 0 condition
Store(0x00,BYT1)
Store(0x00,BYT2)
XOr(BYT1,BYT2,Local0)
Store (Local0, RBYT)
if(LNotEqual(RBYT,0))
{ Return(1)}

// (BYT1) Bit1 ->1 and (BYT2)Bit2 -> 1 condition
Store(0xff,BYT1)
Store(0xff,BYT2)
XOr(BYT1,BYT2,Local0)
Store (Local0, RBYT)
if(LNotEqual(RBYT,0))
{ Return(1)}

// (BYT1) Bit1 ->1 and (BYT)Bit2 -> 0 condition
Store(0x55,BYT1)
Store(0xAA,BYT2)
XOr(BYT1,BYT2,Local0)

Store (Local0, RBYT)
if(LNotEqual(RBYT,0xFF))
{ Return(1)}

//(BYT1) Bit1 ->0 and (BYT2)Bit2 -> 1 condition
Store(0xAA,BYT1)
Store(0x55,BYT2)
XOr(BYT1,BYT2,Local0)
Store (Local0, RBYT)
if(LNotEqual(RBYT,0xFF))
{ Return(1)}

Store(0x12,BYT1)
Store(0xED,BYT2)

XOr(BYT1,BYT2,Local0)
Store (Local0, RBYT)
if(LNotEqual(RBYT,0xFF))
{
    Return(1)
}

```



```

// Store known values for checking later
Store(0x12, BYT1)
if(LNotEqual(BYT1, 0x12))
{
    Return(1)
}

Store(0xFE, BYT2)
if(LNotEqual(BYT2, 0xFE))
{
    Return(1)
}

Store(0xAB, RBYT)
if(LNotEqual(RBYT, 0xAB))
{
    Return(1)
}

//*****
// (WRD1) Bit1 ->0 and (WRD2)Bit2 -> 0 condition
Store(0x0000,WRD1)
Store(0x0000,WRD2)
XOr(WRD1,WRD2,RWRD)
if(LNotEqual(RWRD,0))
{ Return(1)}

// (WRD1) Bit1 ->1 and (WRD2)Bit2 -> 1 condition
Store(0xffff,WRD1)
Store(0xffff,WRD2)
XOr(WRD1,WRD2,RWRD)
if(LNotEqual(RWRD,0))
{ Return(1)}

// (WRD1) Bit1 ->1 and (WRD2)Bit2 -> 0 condition
Store(0x5555,WRD1)
Store(0xAAAA,WRD2)
XOr(WRD1,WRD2,RWRD)
if(LNotEqual(RWRD,0xFFFF))
{ Return(1)}

//(WRD1) Bit1 ->0 and (WRD2)Bit2 -> 1 condition
Store(0xAAAA,WRD1)
Store(0x5555,WRD2)
XOr(WRD1,WRD2,RWRD)
if(LNotEqual(RWRD,0xFFFF))
{ Return(1)}

```



```

Store(0x1234,WRD1)
Store(0xEDCB,WRD2)
XOr(WRD1,WRD2,RWRD)
if(LNotEqual(RWRD,0xFFFF))
{ Return(1)}

// Store known values for checking later
Store(0x1234, WRD1)
if(LNotEqual(WRD1, 0x1234))
{
    Return(1)
}

Store(0xFEDC, WRD2)
if(LNotEqual(WRD2, 0xFEDC))
{
    Return(1)
}

Store(0x87AB, RWRD)
if(LNotEqual(RWRD, 0x87AB))
{
    Return(1)
}

//*****
// (DWD1) Bit1 ->0 and (DWD2)Bit2 -> 0 condition
Store(0x00000000,DWD1)
Store(0x00000000,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0))
{ Return(1)}

// (DWD1) Bit1 ->1 and (DWD2)Bit2 -> 1 condition
Store(0xffffffff,DWD1)
Store(0xffffffff,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0))
{ Return(1)}

// (DWD1) Bit1 ->1 and (DWD2)Bit2 -> 0 condition
Store(0x55555555,DWD1)
Store(0xAAAAAAAA,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0xFFFFFFFF))
{ Return(1)}

```



```

//(DWD1) Bit1 ->0 and (DWD2)Bit2 -> 1 condition
Store(0xAAAAAAAA,DWD1)
Store(0x55555555,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0xFFFFFFFF))
{ Return(1)}

// (DWD1) Bit1 ->1 and (DWD2)Bit2 -> 0 condition
Store(0x12345678,DWD1)
Store(0xEDCBA987,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0xFFFFFFFF))
{ Return(1)}

Store(0x12345678,DWD1)
if(LNotEqual(DWD1,0x12345678))
{
    Return(1)
}

Store(0xFEDCBA98,DWD2)
if(LNotEqual(DWD2,0xFEDCBA98))
{
    Return(1)
}

Store(0x91827364,RDWD)
if(LNotEqual(RDWD,0x91827364))
{
    Return(1)
}

//*****
// Check the stored single bits
if(LNotEqual(RES1, 1))
{
    Return(1)
}

if(LNotEqual(RES2, 1))
{
    Return(1)
}

if(LNotEqual(RES3, 1))
{
    Return(1)
}

```



```

if(LNotEqual(RES4, 1))
{
    Return(1)
}

// Change all of the single bit fields to zero
Store(0, RES1)
Store(0, RES2)
Store(0, RES3)
Store(0, RES4)

// Now, check all of the fields

// Byte
if(LNotEqual(BYT1, 0x12))
{
    Return(1)
}

if(LNotEqual(BYT2, 0xFE))
{
    Return(1)
}

if(LNotEqual(RBYT, 0xAB))
{
    Return(1)
}

// Word
if(LNotEqual(WRD1, 0x1234))
{
    Return(1)
}

if(LNotEqual(WRD2, 0xFEDC))
{
    Return(1)
}

if(LNotEqual(RWRD, 0x87AB))
{
    Return(1)
}

// Dword

```



```

    if(LNotEqual(DWD1, 0x12345678))
    {
        Return(1)
    }

    if(LNotEqual(DWD2, 0xFEDCBA98))
    {
        Return(1)
    }

    if(LNotEqual(RDWD, 0x91827364))
    {
        Return(1)
    }

    // Bits
    if(LNotEqual(RES1, 0))
    {
        Return(1)
    }

    if(LNotEqual(RES2, 0))
    {
        Return(1)
    }

    if(LNotEqual(RES3, 0))
    {

Return(1)
    }

    if(LNotEqual(RES4, 0))
    {
        Return(1)
    }

    Return(0)
} // TEST
} // XORD

//
// test CrBytFld.asl
//
// CrBytFld test
//   Test for CreateByteField.
//   Tests creating byte field overlay of buffer stored in Local0.

```



```

// Tests need to be added for Arg0 and Name buffers.
//
Device (CRBF)
{ // Test device name
Method (TEST)
{
    Store ("+++++++ CrBytFld Test", Debug)

    // Local0 is uninitialized buffer with 4 elements
    Store (Buffer (4) {}, Local0)

    // create Byte Field named BF0 based on Local0 element 0
    CreateByteField (Local0, 0, BF0)

    // validate CreateByteField did not alter Local0
    Store (ObjectType (Local0), Local1) // Local1 = Local0 object type
    If (LNotEqual (Local1, 3)) // Buffer object type value is 3
        { Return (2) }

    // store something into BF0
    Store (1, BF0)

    // validate Store did not alter Local0 object type
    Store (ObjectType (Local0), Local1) // Local1 = Local0 object type
    If (LNotEqual (Local1, 3)) // Buffer object type value is 3
        { Return (3) }

    // verify that the Store into BF0 was successful
    If (LNotEqual (BF0, 1))
        { Return (4) }

    // create Byte Field named BF1 based on Local0 element 1
    CreateByteField (Local0, 1, BF1)

    // validate CreateByteField did not alter Local0
    Store (ObjectType (Local0), Local1) // Local1 = Local0 object type
    If (LNotEqual (Local1, 3)) // Buffer object type value is 3
        { Return (10) }

    // store something into BF1
    Store (5, BF1)

    // validate Store did not alter Local0 object type
    Store (ObjectType (Local0), Local1)
// Local1 = Local0 object type
    If (LNotEqual (Local1, 3)) // Buffer object type value is 3

```



```

    { Return (11) }

// verify that the Store into BF1 was successful
If (LNotEqual (BF1, 5))
    { Return (12) }

// verify that the Store into BF1 did not alter BF0
If (LNotEqual (BF0, 1))
    { Return (13) }

// store something into BF0
Store (0xFFFF, BF0)

// verify that the Store into BF0 was successful
If (LNotEqual (BF0, 0xFF))
    { Return (20) }

// verify that the Store into BF0 did not alter BF1
If (LNotEqual (BF1, 5))
    { Return (21) }

Return (0)
} // TEST
} // CRBF

//
// test IndexOp4.asl
//
// IndexOp4 test
// This is just a subset of the many RegionOp/Index Field test cases.
// Tests access of index fields smaller than 8 bits.
//
Device (IDX4)
{ // Test device name

// MADM: Misaligned Dynamic RAM SystemMemory OperationRegion
// Tests OperationRegion memory access using misaligned BYTE,
// WORD, and DWORD field element accesses. Validation is performed
// using both misaligned field entries and aligned field entries.
//
// MADM returns 0 if all test cases pass or non-zero identifying
// the failing test case for debug purposes. This non-zero numbers
// are not guaranteed to be in perfect sequence (i.e., test case
// index), but are guaranteed to be unique so the failing test
// case can be uniquely identified.
//

```



```

Method (MADM, 1, Serialized) // Misaligned Dynamic RAM SystemMemory OperationRegion
// Arg0 -- SystemMemory OperationRegion base address
{ // MADM: Misaligned Dynamic RAM SystemMemory OperationRegion
    OperationRegion (RAM, SystemMemory, Arg0, 0x100)
    Field (RAM, DwordAcc, NoLock, Preserve)
    { // aligned field definition (for verification)
        DWD0, 32, // aligned DWORD field
        DWD1, 32 // aligned DWORD field
    }
    Field (RAM, ByteAcc, NoLock, Preserve)
    { // bit access field definition
        BIT0, 1, // single bit field entry
        BIT1, 1, // single bit field entry
        BIT2, 1, // single bit field entry
        BIT3, 1, // single bit field entry
        BIT4, 1, // single bit field entry
        BIT5, 1, // single bit field entry
        BIT6, 1, // single bit field entry
        BIT7, 1, // single bit field entry
        BIT8, 1, // single bit field entry
        BIT9, 1, // single bit field entry

        BITA, 1, // single bit field entry
        BITB, 1, // single bit field entry
        BITC, 1, // single bit field entry
        BITD, 1, // single bit field entry
        BITE, 1, // single bit field entry
        BITF, 1, // single bit field entry
        BI10, 1, // single bit field entry
        BI11, 1, // single bit field entry
        BI12, 1, // single bit field entry
        BI13, 1, // single bit field entry
        BI14, 1, // single bit field entry
        BI15, 1, // single bit field entry
        BI16, 1, // single bit field entry
        BI17, 1, // single bit field entry
        BI18, 1, // single bit field entry
        BI19, 1, // single bit field entry
        BI1A, 1, // single bit field entry
        BI1B, 1, // single bit field entry
        BI1C, 1, // single bit field entry
        BI1D, 1, // single bit field entry
        BI1E, 1, // single bit field entry
        BI1F, 1 // single bit field entry
    } // bit access field definition

    Field (RAM, ByteAcc, NoLock, Preserve)
    { // two-bit access field definition

```



```

    B2_0, 2, // single bit field entry
    B2_1, 2, // single bit field entry
    B2_2, 2, // single bit field entry
    B2_3, 2, // single bit field entry
    B2_4, 2, // single bit field entry
    B2_5, 2, // single bit field entry
    B2_6, 2, // single bit field entry
    B2_7, 2, // single bit field entry
    B2_8, 2, // single bit field entry
    B2_9,
2, // single bit field entry
    B2_A, 2, // single bit field entry
    B2_B, 2, // single bit field entry
    B2_C, 2, // single bit field entry
    B2_D, 2, // single bit field entry
    B2_E, 2, // single bit field entry
    B2_F, 2 // single bit field entry
} // bit access field definition

// initialize memory contents using aligned field entries
Store (0x5AA55AA5, DWD0)
Store (0x5AA55AA5, DWD1)

// set memory contents to known values using misaligned field entries
Store (0, BIT0)
// verify memory contents using misaligned field entries
If (LNotEqual (BIT0, 0))
    { Return (1) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0x5AA55AA4))
    { Return
(2) }

// set memory contents to known values using misaligned field entries
Store (1, BIT1)
// verify memory contents using misaligned field entries
If (LNotEqual (BIT1, 1))
    { Return (3) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0x5AA55AA6))
    { Return (4) }

// set memory contents to known values using misaligned field entries
Store (0, BIT2)
// verify memory contents using misaligned field entries
If (LNotEqual (BIT2, 0))
    { Return (5) }
// verify memory contents using aligned field entries

```



```

    If (LNotEqual (DWD0, 0x5AA55AA2))
        { Return (6) }

// set memory contents to known values using misaligned field entries
Store (1, BIT3)
// verify memory
contents using misaligned field entries
    If (LNotEqual (BIT3, 1))
        { Return (7) }
// verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA55AAA))
        { Return (8) }

// set memory contents to known values using misaligned field entries
Store (1, BIT4)
// verify memory contents using misaligned field entries
    If (LNotEqual (BIT4, 1))
        { Return (9) }
// verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA55ABA))
        { Return (10) }

// set memory contents to known values using misaligned field entries
Store (0, BIT5)
// verify memory contents using misaligned field entries
    If (LNotEqual (BIT5, 0))
        { Return (11) }
// verify memory
contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA55A9A))
        { Return (12) }

// set memory contents to known values using misaligned field entries
Store (1, BIT6)
// verify memory contents using misaligned field entries
    If (LNotEqual (BIT6, 1))
        { Return (13) }
// verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA55ADA))
        { Return (14) }

// set memory contents to known values using misaligned field entries
Store (0, BIT7)
// verify memory contents using misaligned field entries
    If (LNotEqual (BIT7, 0))
        { Return (15) }
// verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA55A5A))

```



```

    { Return (16) }

// set memory
contents to known values using misaligned field entries
Store (1, BIT8)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BIT8, 1))
        { Return (17) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA55B5A))
        { Return (18) }

// set memory contents to known values using misaligned field entries
Store (0, BIT9)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BIT9, 0))
        { Return (19) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA5595A))
        { Return (20) }

// set memory contents to known values using misaligned field entries
Store (1, BITA)
    // verify memory contents using misaligned field
entries
    If (LNotEqual (BITA, 1))
        { Return (21) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA55D5A))
        { Return (22) }

// set memory contents to known values using misaligned field entries
Store (0, BITB)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BITB, 0))
        { Return (23) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA5555A))
        { Return (24) }

// set memory contents to known values using misaligned field entries
Store (0, BITC)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BITC, 0))
        { Return (25) }
    // verify memory contents using aligned field
entries
    If (LNotEqual (DWD0, 0x5AA5455A))

```



```

    { Return (26) }

// set memory contents to known values using misaligned field entries
Store (1, BITD)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BITD, 1))
        { Return (27) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA5655A))
        { Return (28) }

// set memory contents to known values using misaligned field entries
Store (0, BITE)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BITE, 0))
        { Return (29) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA5255A))
        { Return (30) }

// set memory contents to known values using
misaligned field entries
Store (1, BITF)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BITF, 1))
        { Return (31) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA5A55A))
        { Return (32) }

// set memory contents to known values using misaligned field entries
Store (0, BI10)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BI10, 0))
        { Return (33) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA4A55A))
        { Return (34) }

// set memory contents to known values using misaligned field entries
Store (1, BI11)
    // verify memory contents using misaligned field entries
    If (LNotEqual
(BI11, 1))
        { Return (35) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5AA6A55A))
        { Return (36) }

```



```

// set memory contents to known values using misaligned field entries
Store (0, BI12)
// verify memory contents using misaligned field entries
If (LNotEqual (BI12, 0))
    { Return (37) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0x5AA2A55A))
    { Return (38) }

// set memory contents to known values using misaligned field entries
Store (1, BI13)
// verify memory contents using misaligned field entries
If (LNotEqual (BI13, 1))
    { Return (39) }
// verify memory contents using aligned field entries
If (LNotEqual
(DWD0, 0x5AAAA55A))
    { Return (40) }

// set memory contents to known values using misaligned field entries
Store (1, BI14)
// verify memory contents using misaligned field entries
If (LNotEqual (BI14, 1))
    { Return (41) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0x5ABAA55A))
    { Return (42) }

// set memory contents to known values using misaligned field entries
Store (0, BI15)
// verify memory contents using misaligned field entries
If (LNotEqual (BI15, 0))
    { Return (43) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0x5A9AA55A))
    { Return (44) }

// set memory contents to known values using misaligned field entries

Store (1, BI16)
// verify memory contents using misaligned field entries
If (LNotEqual (BI16, 1))
    { Return (45) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0x5ADAA55A))
    { Return (46) }

```



```

// set memory contents to known values using misaligned field entries
Store (0, BI17)
  // verify memory contents using misaligned field entries
  If (LNotEqual (BI17, 0))
    { Return (47) }
  // verify memory contents using aligned field entries
  If (LNotEqual (DWD0, 0x5A5AA55A))
    { Return (48) }

// set memory contents to known values using misaligned field entries
Store (1, BI18)
  // verify memory contents using misaligned field entries
  If (LNotEqual (BI18, 1))

{ Return (49) }
  // verify memory contents using aligned field entries
  If (LNotEqual (DWD0, 0x5B5AA55A))
    { Return (50) }

// set memory contents to known values using misaligned field entries
Store (0, BI19)
  // verify memory contents using misaligned field entries
  If (LNotEqual (BI19, 0))
    { Return (51) }
  // verify memory contents using aligned field entries
  If (LNotEqual (DWD0, 0x595AA55A))
    { Return (52) }

// set memory contents to known values using misaligned field entries
Store (1, BI1A)
  // verify memory contents using misaligned field entries
  If (LNotEqual (BI1A, 1))
    { Return (53) }
  // verify memory contents using aligned field entries
  If (LNotEqual (DWD0, 0x5D5AA55A))

    { Return (54) }

// set memory contents to known values using misaligned field entries
Store (0, BI1B)
  // verify memory contents using misaligned field entries
  If (LNotEqual (BI1B, 0))
    { Return (55) }
  // verify memory contents using aligned field entries
  If (LNotEqual (DWD0, 0x555AA55A))
    { Return (56) }

// set memory contents to known values using misaligned field entries

```



```

Store (0, BI1C)
// verify memory contents using misaligned field entries
If (LNotEqual (BI1C, 0))
    { Return (57) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0x455AA55A))
    { Return (58) }

// set memory contents to known values using misaligned field entries
Store (1, BI1D)

// verify memory contents using misaligned field entries
If (LNotEqual (BI1D, 1))
    { Return (59) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0x655AA55A))
    { Return (60) }

// set memory contents to known values using misaligned field entries
Store (0, BI1E)
// verify memory contents using misaligned field entries
If (LNotEqual (BI1E, 0))
    { Return (61) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0x255AA55A))
    { Return (62) }

// set memory contents to known values using misaligned field entries
Store (1, BI1F)
// verify memory contents using misaligned field entries
If (LNotEqual (BI1F, 1))
    { Return (63) }

// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0xA55AA55A))
    { Return (64) }

// set memory contents to known values using misaligned field entries
Store (3, B2_0)
// verify memory contents using misaligned field entries
If (LNotEqual (B2_0, 3))
    { Return (65) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0xA55AA55B))
    { Return (66) }

// set memory contents to known values using misaligned field entries

```



```

Store (1, B2_1)
    // verify memory contents using misaligned field entries
    If (LNotEqual (B2_1, 1))
        { Return (67) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0xA55AA557))
        { Return (68) }
}

// set memory contents to known values using misaligned field entries
Store (0, B2_2)
    // verify memory contents using misaligned field entries
    If (LNotEqual (B2_2, 0))
        { Return (69) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0xA55AA547))
        { Return (70) }

// set memory contents to known values using misaligned field entries
Store (3, B2_3)
    // verify memory contents using misaligned field entries
    If (LNotEqual (B2_3, 3))
        { Return (71) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0xA55AA5C7))
        { Return (72) }

// set memory contents to known values using misaligned field entries
Store (3, B2_4)
    // verify memory contents
using misaligned field entries
    If (LNotEqual (B2_4, 3))
        { Return (73) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0xA55AA7C7))
        { Return (74) }

// set memory contents to known values using misaligned field entries
Store (0, B2_5)
    // verify memory contents using misaligned field entries
    If (LNotEqual (B2_5, 0))
        { Return (75) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0xA55AA3C7))
        { Return (76) }

// set memory contents to known values using misaligned field entries
Store (1, B2_6)

```



```

// verify memory contents using misaligned field entries
If (LNotEqual (B2_6, 1))
    { Return (77) }
// verify memory contents
using aligned field entries
If (LNotEqual (DWD0, 0xA55A93C7))
    { Return (78) }

// set memory contents to known values using misaligned field entries
Store (1, B2_7)
// verify memory contents using misaligned field entries
If (LNotEqual (B2_7, 1))
    { Return (79) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0xA55A53C7))
    { Return (80) }

// set memory contents to known values using misaligned field entries
Store (0, B2_8)
// verify memory contents using misaligned field entries
If (LNotEqual (B2_8, 0))
    { Return (81) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0xA55853C7))
    { Return (82) }

// set memory contents
to known values using misaligned field entries
Store (1, B2_9)
// verify memory contents using misaligned field entries
If (LNotEqual (B2_9, 1))
    { Return (83) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0xA55453C7))
    { Return (84) }

// set memory contents to known values using misaligned field entries
Store (2, B2_A)
// verify memory contents using misaligned field entries
If (LNotEqual (B2_A, 2))
    { Return (85) }
// verify memory contents using aligned field entries
If (LNotEqual (DWD0, 0xA56453C7))
    { Return (86) }

// set memory contents to known values using misaligned field entries
Store (2, B2_B)
// verify memory contents using misaligned field entries

```



```

    If (LNotEqual (B2_B, 2))
    {   Return (87) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0xA5A453C7))
    {   Return (88) }

    // set memory contents to known values using misaligned field entries
    Store (3, B2_C)
    // verify memory contents using misaligned field entries
    If (LNotEqual (B2_C, 3))
    {   Return (89) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0xA7A453C7))
    {   Return (90) }

    // set memory contents to known values using misaligned field entries
    Store (3, B2_D)
    // verify memory contents using misaligned field entries
    If (LNotEqual (B2_D, 3))
    {   Return (91) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0xAFA453C7))
    {   Return (92) }

    // set memory contents to known values using misaligned field entries
    Store (1, B2_E)
    // verify memory contents using misaligned field entries
    If (LNotEqual (B2_E, 1))
    {   Return (93) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x9FA453C7))
    {   Return (94) }

    // set memory contents to known values using misaligned field entries
    Store (0, B2_F)
    // verify memory contents using misaligned field entries
    If (LNotEqual (B2_F, 0))
    {   Return (95) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x1FA453C7))
    {   Return (96) }

    Return (0) // pass
} // MADM: Misaligned
Dynamic RAM SystemMemory OperationRegion

Method (TEST)

```



```

{
    Store ("+++++++ IndexOp4 Test", Debug)

    // MADM (Misaligned Dynamic RAM SystemMemory OperationRegion) arguments:
    //   Arg0 -- SystemMemory OperationRegion base address
    Store (MADM (0x800000), Local0)
    If (LNotEqual (Local0, 0)) // MADM returns zero if successful
        { Return (Local0) } // failure: return MADM error code

    Return (Local0)
} // TEST
} // IDX4

//
// test Event.asl
//
// EventOp, ResetOp, SignalOp, and WaitOp test cases.
//
Device (EVNT)
{
    Event (EVNT) // event synchronization object

    Method (TEVN, 1)
    // Arg0: time to Wait for event in milliseconds
    { // TEVN control method to test ResetOp, SignalOp, and WaitOp
        // reset EVNT to initialization (zero) state
        Reset (EVNT)

        // prime EVNT
with two outstanding signals
        Signal (EVNT)
        Signal (EVNT)

        // acquire existing signal
        Store (Wait (EVNT, Arg0), Local0)

        // validate Local0 is a Number
        Store (ObjectType (Local0), Local1)
        If (LNotEqual (Local1, 1)) // Number is type 1
            { Return (0x21) } // Local1 indicates Local0 is not a Number

        If (LNotEqual (Local0, 0)) // Number is type 1
            { Return (0x22) } // timeout occurred without acquiring signal

        Store ("Acquire 1st existing signal PASS", Debug)
    }
}

```



```

// acquire existing signal
Store (Wait (EVNT, Arg0), Local0)

// validate Local0 is a Number
Store (ObjectType (Local0), Local1)
If (LNotEqual (Local1, 1)) // Number is type 1
    { Return (0x31) } // Local1 indicates Local0 is not a Number

If (LNotEqual (Local0, 0))
// Number is type 1
    { Return (0x32) } // timeout occurred without acquiring signal

Store ("Acquire 2nd existing signal PASS", Debug)

// ensure WaitOp timeout test cases do not hang
if (LEqual (Arg0, 0xFFFF))
    { Store (0xFFFE, Arg0) }

// acquire non-existing signal
Store (Wait (EVNT, Arg0), Local0)

// validate Local0 is a Number
Store (ObjectType (Local0), Local1)
If (LNotEqual (Local1, 1)) // Number is type 1
    { Return (0x41) } // Local1 indicates Local0 is not a Number

If (LEqual (Local0, 0)) // Number is type 1
    { Return (0x42) } // non-existent signal was acquired

Store ("Acquire signal timeout PASS", Debug)

// prime EVNT with two outstanding signals
Signal (EVNT)
Signal (EVNT)

// reset EVNT to initialization
(zero) state
Reset (EVNT)

// acquire non-existing signal
Store (Wait (EVNT, Arg0), Local0)

// validate Local0 is a Number
Store (ObjectType (Local0), Local1)
If (LNotEqual (Local1, 1)) // Number is type 1
    { Return (0x51) } // Local1 indicates Local0 is not a Number

```



```

If (LEqual (Local0, 0)) // Number is type 1
{ Return (0x52) } // non-existent signal was acquired

Store ("Reset signal PASS", Debug)

// acquire non-existing signal using Lvalue timeout
Store (Wait (EVNT, Zero), Local0)

// validate Local0 is a Number
Store (ObjectType (Local0), Local1)
If (LNotEqual (Local1, 1)) // Number is type 1
{ Return (0x61) } // Local1 indicates Local0 is not a Number

If (LEqual (Local0, 0)) // Number is type 1

{ Return (0x62) } // non-existent signal was acquired

Store ("Zero Lvalue PASS", Debug)

// acquire non-existing signal using Lvalue timeout
Store (Wait (EVNT, One), Local0)

// validate Local0 is a Number
Store (ObjectType (Local0), Local1)
If (LNotEqual (Local1, 1)) // Number is type 1
{ Return (0x71) } // Local1 indicates Local0 is not a Number

If (LEqual (Local0, 0)) // Number is type 1
{ Return (0x72) } // non-existent signal was acquired

Store ("One Lvalue PASS", Debug)

// Lvalue Event test cases
// ILLEGAL SOURCE OPERAND Store (EVNT, Local2)

// validate Local2 is an Event
Store (ObjectType (EVNT), Local1)
If (LNotEqual (Local1, 7)) // Event is type 7
{ Return (0x81) } // Local1 indicates Local0 is not a Number

// reset EVNT to initialization (zero) state
Reset (EVNT)

// prime EVNT with two outstanding signals
Signal (EVNT)

```



```

// acquire existing signal
Store (Wait (EVNT, Arg0), Local0)

// validate Local0 is a Number
Store (ObjectType (Local0), Local1)
If (LNotEqual (Local1, 1)) // Number is type 1
    { Return (0x82) } // Local1 indicates Local0 is not a Number

If (LNotEqual (Local0, 0)) // Number is type 1
    { Return (0x83) } // timeout occurred without acquiring signal

Store ("Acquire Lvalue existing signal PASS", Debug)

// acquire non-existing signal
Store (Wait (EVNT, Arg0), Local0)

// validate Local0 is a Number
Store (ObjectType (Local0), Local1)
If (LNotEqual (Local1, 1)) // Number is type 1
    { Return (0x84) }
// Local1 indicates Local0 is not a Number

If (LEqual (Local0, 0)) // Number is type 1
    { Return (0x85) } // non-existent signal was acquired

Store ("Acquire Lvalue signal timeout PASS", Debug)

Return (0) // success
} // TEVN control method to test ResetOp, SignalOp, and WaitOp

Method (TEST)
{
    Store ("+++++++ Event Test", Debug)

    Store (TEVN (100), Local0)

    Return (Local0)
} // TEST
} // EVNT

//
// test SizeOfLv.asl
//
// Test for SizeOf (Lvalue)
//

```



```

// This next section will contain the packages that the SizeOfOp will be
// exercised on. The first one, PKG0, is a regular package of 3 elements.
// The 2nd one, PKG1, is a nested package with 3 packages inside it, each
// with 3 elements. It is expected that SizeOf operator will return the
// same value for these two packages since they both have 3 elements. The
// final
package, PKG2, has 4 elements and the SizeOf operator is expected
// to return different results for this package.

Name (PKG0,
    Package (3)
        {0x0123, 0x4567, 0x89AB}
    ) // PKG0

Name (PKG1,
    Package (3)
        {
            Package (3) {0x0123, 0x4567, 0x89AB},
            Package (3) {0xCDEF, 0xFEDC, 0xBA98},
            Package (3) {0x7654, 0x3210, 0x1234}
        }
    ) // PKG1

Name (PKG2,
    Package (4)
        {0x0123, 0x4567, 0x89AB, 0x8888}
    ) // PKG2

Name (PKG3,
    Package (5)
        {0x0123, 0x4567, 0x89AB, 0x8888, 0x7777}
    ) // PKG3

// End Packages *****

// The following section will declare the data strings that will be used to
// exercise the SizeOf operator. STR0 and STR1 are expected to be equal,
// STR2 is expected to have a different SizeOf value than STR0 and STR1.

Name (STR0, "ACPI permits very flexible methods of expressing a system")

Name (STR1, "MIKE permits very flexible methods of expressing a system")

Name (STR2, "Needless to say, Mike and ACPI are frequently at odds")

// This string is being made in case we want to do a SizeOf comparison
// between strings and packages or buffers
Name (STR3, "12345")

```



```

// End Strings *****

// The following section will declare the buffers that will be used to exercise
// the SizeOf operator.

Name (BUF0, Buffer (10) { })
Name (BUF1, Buffer (10) { })
Name (BUF2, Buffer (8) { })
Name (BUF3, Buffer (5) { })

// End Buffers *****

Device (SZLV)
{

    Method (CMPR, 2)
    {
        // CMPR is passed two arguments. If unequal, return 1 to indicate
        // that, otherwise return 0 to indicate SizeOf each is equal.

        Store (0x01, Local0)

        if (LEqual (SizeOf(Arg0), SizeOf(Arg1)))
        {
            Store (0x00, Local0)
        }

        return (Local0)
    } // CMPR

    Method (TEST)
    {

        Store ("+++++++ SizeOfLv Test", Debug)

        // TBD:  SizeOf ("string")
        //      SizeOf (Buffer)
        //      SizeOf (Package)
        //      SizeOf (String)
        //      SizeOf (STR0) -- where Name (STR0,...) -- lot's of cases
        //      buffer, string, package,
        //      SizeOf (METH) -- where METH control method returns
        //      buffer, string, package,

        // TBD:  SLOC [SizeOf (Local0)] -- dup SARG

        // Compare the elements that we expect to be the same. Exit out with an error

```



```

// code on the first failure.
if (LNotEqual (0x00, CMPR (STR0, STR1)))
{
    Return (0x01)
}

if (LNotEqual (0x00, CMPR (STR3, BUF3)))

{
    Return (0x02)
}

if (LNotEqual (0x00, CMPR (STR3, PKG3)))
{
    Return (0x03)
}

// In the following section, this test will cover the SizeOf
// operator for Local values.
// In this case, both Local0 and Local1 should have the same Size
Store (STR0, Local0)
Store (STR1, Local1)

if (LNotEqual (SizeOf (Local0), SizeOf (Local1)))
{
    Return (0x04)
}

// Now create a case where Local0 and Local1 are different
Store (STR2, Local1)

if (LEqual (SizeOf (Local0), SizeOf (Local1)))
{
    Return (0x05)
}

// Finally, check for the return of SizeOf for a known Buffer. Just
// in case we magically pass above cases due to all Buffers being Zero
// bytes in size, or Infinity, etc.
if (LNotEqual
(0x05, SizeOf (BUF3)))
{
    Return (0x06)
}

Return (0)
} // TEST
} // SZLV

```



```

//
// test BytField.asl
//
// BytField test
//   This is just a subset of the many RegionOp/Index Field test cases.
//   Tests access of TBD.
//
Scope (\_SB) // System Bus
{ // _SB system bus
  Device (BYTF)
  { // Test device name
    Method (TEST)
    {
      Store ("+++++++ BytField Test", Debug)

      Return (\_TZ.C19B.RSLT)
    } // TEST
  } // BYTF

  Device (C005)
  { // Device C005
    Device (C013)
    { // Device C013
    } // Device C013
  } // Device C005

  Method (C115)
  { // C115 control method
    Acquire (\_GL, 0xFFFF)
    Store (\_SB.C005.C013.C058.C07E, Local0)
    Release (\_GL)
    And (Local0, 16, Local0)
    Store
(ShiftRight (Local0, 4, ), Local1)
    If (LEqual (Local1, 0))
    { Return (1) }
    Else
    { Return (0) }
  } // C115 control method
} // _SB system bus

OperationRegion (C018, SystemIO, 0x5028, 4)
Field (C018, AnyAcc, NoLock, Preserve)
{ // Field overlaying C018
  C019, 32
} // Field overlaying C018

```



```

OperationRegion (C01A, SystemIO, 0x5030, 4)
Field (C01A, ByteAcc, NoLock, Preserve)
{ // Field overlaying C01A
    C01B, 8,
    C01C, 8,
    C01D, 8,
    C01E, 8
} // Field overlaying C01A

Mutex (\C01F, 0)
Name (\C020, 0)
Name (\C021, 0)

Method (\C022, 0)
{ // \C022 control method
    Acquire (\C01F, 0xFFFF)
    If (LEqual (\C021, 0))
    {
        Store (C019, Local0)
        And (Local0, 0xFFFEFFFE, Local0)
        Store (Local0, C019)
        Increment (\C021)
    }
    Release (\C01F)
} // \C022 control method

Scope (\_SB.C005.C013)
{ // Scope \_SB.C005.C013
    Device (C058)
    { // Device C058
        Name (_HID, "*PNP0A06")

        OperationRegion (C059, SystemIO, 0xE0, 2)
        Field (C059, ByteAcc, NoLock, Preserve)
        { // Field overlaying C059
            C05A, 8,
            C05B, 8
        } // Field overlaying C059

        OperationRegion (C05C, SystemIO, 0xE2, 2)
        Field (C05C, ByteAcc, NoLock, Preserve)
        { // Field overlaying C05C
            C05D, 8,
            C05E, 8
        } // Field overlaying C05C
        IndexField (C05D, C05E, ByteAcc, NoLock, Preserve)
        { // IndexField overlaying C05D/C05E

```



```

,    0x410, // skip
C05F, 8,
C060, 8,
C061, 8,
C062, 8,
C063, 8,
C064, 8,

C065, 8,
    C066, 8,
    C067, 8,
    C068, 8,
    C069, 8,
    C06A, 8,
    C06B, 8,
    C06C, 8,
    C06D, 8,
    C06E, 8,
,    0x70,    // skip
C06F, 8,
C070, 8,
C071, 8,
C072, 8,
C073, 8,
C074, 8,
C075, 8,
C076, 8,
C077, 8,
C078, 8,
C079, 8,
C07A, 8,
C07B, 8,
C07C, 8,
C07D, 8,
C07E, 8
} // IndexField overlaying C05D/C05E

OperationRegion (C07F, SystemIO, 0xE4, 2)
Field (C07F, ByteAcc, NoLock, Preserve)
{ // Field overlaying C07F
    C080, 8,
    C081, 8

} // Field overlaying C07F

OperationRegion (C082, SystemIO, 0xE0, 1)
Field (C082, ByteAcc, NoLock, Preserve)
{ // Field overlaying C082

```



```

    C083, 8
} // Field overlaying C082

OperationRegion (C084, SystemIO, 0xFF, 1)
Field (C084, ByteAcc, NoLock, Preserve)
{ // Field overlaying C084
    C085, 8
} // Field overlaying C084

OperationRegion (C086, SystemIO, 0xFD, 1)
Field (C086, ByteAcc, NoLock, Preserve)
{ // Field overlaying C086
    C087, 8
} // Field overlaying C086

Mutex (C088, 0)
Mutex (C089, 0)
Mutex (C08A, 0)
Mutex (C08B, 0)
Mutex (C08C, 0)
Mutex (C08D, 0)

Name (C08E, 0xFFFFFFFF)
Name (C08F, 0)

Method (C0AA, 4)
{ // C0AA control method

Store (Buffer (4) {}, Local7)
    CreateByteField (Local7, 0, C0AB)
    CreateByteField (Local7, 1, C0AC)
    CreateByteField (Local7, 2, C0AD)
    CreateByteField (Local7, 3, C0AE)
    Acquire (^C08B, 0xFFFF)
    Acquire (\_GL, 0xFFFF)
    \C022 ()
    Store (1, \_SB.C005.C013.C058.C06B)
    While (LNot (LEqual (0, \_SB.C005.C013.C058.C06B)))
        { Stall (100) }
    Store (Arg3, \_SB.C005.C013.C058.C06E)
    Store (Arg2, \_SB.C005.C013.C058.C06D)
    Store (Arg1, \_SB.C005.C013.C058.C06C)
    Store (Arg0, \_SB.C005.C013.C058.C06B)
    While (LNot (LEqual (0, \_SB.C005.C013.C058.C06B)))
        { Stall (100) }
    Store (\_SB.C005.C013.C058.C06E, C0AB)
    Store (\_SB.C005.C013.C058.C06D, C0AC)
    Store (\_SB.C005.C013.C058.C06C, C0AD)

```



```

Store (\_SB.C005.C013.C058.C06B, C0AE)
  If (LNot (LEqual (Arg0, 23)))
  {
    Store (2, \_SB.C005.C013.C058.C06B)
    Stall (100)
  }
  Release (\_GL)
  Release (^C08B)
  Return (Local7)
} // C0AA control method
} // Device C058
} // Scope \_SB.C005.C013

Scope (\_TZ)
{ // \_TZ thermal zone scope
  Name (C18B, Package (2)
  {
    Package (2)
    {
      Package (5) {0x05AC, 0x0CD2, 0x0D68, 0x0DE0, 0x0E4E},
      Package (5) {0x0D04, 0x0D9A, 0x0DFE, 0x0E80, 0x0FA2}
    },
    Package (2)
    {
      Package (5) {0x05AC, 0x0CD2, 0x0D68, 0x0DE0, 0x0E4E},
      Package (5) {0x0D04, 0x0D9A, 0x0DFE, 0x0E80, 0x0FA2}
    }
  }) // C18B

  Name (C18C, Package (2)
  {
    Package (2)
    {

Package (3) {0x64, 0x4B, 0x32},
      Package (3) {0x64, 0x4B, 0x32}
    }
  }) // C81C

  Name (C18D, 0)
  Name (C18E, 0)
  Name (C18F, 0)
  Name (C190, 0)
  Name (C191, 3)
  Name (C192, 0)
  Name (C193, 1)
  Name (C194, 2)

```



```

Mutex (C195, 0)
Name (C196, 1)
Name (C197, 0x0B9C)
Name (C198, 0x0B9C)
Name (C199, 0xFFFFFFFF)
Name (C19A, 0)

Device (C19B)
{ // Device C19B
    Name (RSLT, 0) // default to zero

    Method (XINI)
    { // _INI control method (Uses Global Lock -- can't run under AcpiExec)
        Store (\_SB.C115, C19A)
        \_TZ.C19C._SCP (0)
        Subtract (0x0EB2, 0x0AAC, Local1) // Local1 = AACH - EB2h
        Divide (Local1, 10, Local0, Local2) // Local0 = Local1 / 10
                                         // Local2 = Local1 % 10

        \_SB.C005.C013.C058.C0AA (14, Local2, 0, 0)
        Store
            (DerefOf (Index (DerefOf (Index (\_TZ.C18C, C19A, )), 0, )), C18D)
        Store
            (DerefOf (Index (DerefOf (Index (\_TZ.C18C, C19A, )), 1, )), C18E)
        Store
            (DerefOf (Index (DerefOf (Index (\_TZ.C18C, C19A, )), 2, )), C18F)

        Store (1, RSLT) // set RSLT to 1 if _INI control method completes
    } // _INI control method

    // PowerResource (C19D) {...}
} // Device C19B

ThermalZone (C19C)
{
    Method (_SCP, 1)
    { // _SCP control method
        Store (Arg0, Local0)
        If (LEqual (Local0, 0))
        {
            Store (0, \_TZ.C192)
            Store (1, \_TZ.C193)
            Store (2, \_TZ.C194)
            Store (3, \_TZ.C191)
        }
        Else
        {

```



```

        Store (0, \_TZ.C191)
        Store (1, \_TZ.C192)
        Store (2, \_TZ.C193)
        Store (3, \_TZ.C194)
    }
} // _SCP control method
} // ThermalZone C19C
} // \_TZ thermal zone scope

//
// test DwordFld.asl
//
Name (BUFR, buffer(10) {0,0,0,0,0,0,0,0,0,0} )

Device (DWDF)
{
    Method (TEST)
    {
        Store ("+++++++ DwordFld Test", Debug)

        CreateByteField (BUFR, 0, BYTE)
        Store (0xAA, BYTE)

        CreateWordField (BUFR, 1, WORD)
        Store (0xBBCC, WORD)

        CreateDWordField (BUFR, 3, DWRD)
        Store (0xDDEEFF00, DWRD)

        CreateByteField (BUFR, 7, BYT2)
        Store (0x11, BYT2)

        CreateWordField (BUFR, 8, WRD2)
        Store (0x2233, WRD2)

        Return (0)

    } // End Method TEST
} // Device DWDF

//
// test DivAddx.asl
//
Name (B1LO,
0xAA)
Name (B1HI, 0xBB)

```



```

Method (MKW_, 2)
{ // This control method will take two bytes and make them into a WORD

    Multiply (B1HI, 256, Local0) // Make high byte.....high
    Or (Local0, B1LO, Local0) // OR in the low byte
    Return (Local0) // Return the WORD

} // MKW_

Device (DVAX)
{
    Method (TEST)
    {

        Store ("+++++++ DivAddx Test", Debug)

        Store (25, B1LO)
        Store (0, B1HI)

        // We'll multiply 25 * 3 to get 75, add 99 to it then divide
        // by 100. We expect to get 74 for the remainder and 1 for
        // the quotient.
        Divide(
            Add (Multiply (3, MKW_ (B1LO, B1HI)), 0x63),
                // Dividend,
            100, // Divisor
            Local4, // Remainder
            Local2) // Quotient

        If (LAnd (LEqual (74, Local4), LEqual (1, Local2)))

        { // Indicate Pass
            Store (0x00, Local0)
        }

        Else
        { // Indicate Fail
            Store (0x01, Local0)
        }

        Return (Local0)
    } // End Method TEST
} // Device DVAX

//
// test IndexFld.asl (IndexOp6.asl)
//
// IndexFld test

```



```

// This is just a subset of the many RegionOp/Index Field test cases.
// Tests index field element AccessAs macro.
// Also tests name resolution of index field elements with same names
// but different namespace scopes.
//
Device (IDX6)
{ // Test device name

    OperationRegion (SIO, SystemIO, 0x100, 2)
    Field (SIO, ByteAcc, NoLock, Preserve)
    {
        INDX, 8,
        DATA, 8
    }
    IndexField (INDX, DATA, AnyAcc, NoLock, WriteAsOnes)
    {
        AccessAs (ByteAcc, 0),
        IFE0, 8,
        IFE1, 8,
        IFE2, 8,
        IFE3, 8,
        IFE4,
8,
        IFE5, 8,
        IFE6, 8,
        IFE7, 8,
        IFE8, 8,
        IFE9, 8,
    }

    Device (TST_)
    { // TST_: provides a different namespace scope for IFE0 and IFE1
        OperationRegion (SIO2, SystemIO, 0x100, 2)
        Field (SIO2, ByteAcc, NoLock, Preserve)
        {
            IND2, 8,
            DAT2, 8
        }
        IndexField (IND2, DAT2, AnyAcc, NoLock, WriteAsOnes)
        {
            IFE0, 8, // duplicate IndexField name with different scope
            IFE1, 8
        }
    } // TST_: provides a different namespace scope for IFE0 and IFE1

    Method (TEST)
    {
        Store ("+++++++ IndexOp6 Test", Debug)
    }
}

```



```

Store (IFE0, Local0)
Store (IFE1, Local1)
Store (IFE2, Local2)

// validate name resolution of IndexFields with different scopes
Store (\IDX6.IFE0, Local3)
Store (\IDX6.IFE1, Local4)
// verioading of namespace can resolve following names
Store (\IDX6.TST_.IFE0, Local5)
Store (\IDX6.TST_.IFE1, Local6)

Return (0)
} // TEST
} // IDX6

//
// test IndexOp5.asl
//
// IndexOp5 test
// This is just a subset of the many RegionOp/Index Field test cases.
// Tests copying string into buffer then performing IndexOp on result.
//
Device (IDX5)
{ // Test device name

Name (OSFL, 0) // 0 == Windows 98, 1 == Windows NT

// MCTH is a control method to compare two strings. It returns
// zero if the strings mismatch, or 1 if the strings match.
// This exercises the test case of copying a string into a buffer
// and performing an IndexOp on the resulting buffer.
Method (MCTH, 2, Serialized) // Control Method to compare two strings
{ // MCTH: Control Method to compare two strings

// Arg0: first string to compare
// Arg1: second string to compare
// Return: zero if strings mismatch, 1 if strings match

// check if first string's length is less than second string's length
If (LLess (SizeOf (Arg0), SizeOf (Arg1)))
{ Return (0) }

// increment length to include NULL termination character
Add (SizeOf (Arg0), 1, Local0) // Local0 = strlen(Arg0) + 1

// create two buffers of size Local0 [strlen(Arg0)+1]
Name (BUF0, Buffer (Local0) { })

```



```

Name (BUF1, Buffer (Local0) { })

// copy strings into buffers
Store (Arg0, BUF0)
Store (Arg1, BUF1)

// validate BUF0 and BUF1 are still buffers
Store (ObjectType (BUF0), Local1)
If (LNotEqual (Local1, 3)) // Buffer is type 3
    { Return (20) }
Store (ObjectType (BUF1), Local1)
If
(LNotEqual (Local1, 3)) // Buffer is type 3
    { Return (21) }

// Decrement because the Index base below is zero based
// while Local0 length is one based.
Decrement (Local0)

While (Local0)
{ // loop through all BUF0 buffer elements
    Decrement (Local0)

    // check if BUF0[n] == BUF1[n]
    If (LEqual (DerefOf (Index (BUF0, Local0, )),
        DerefOf (Index (BUF1, Local0, ))))
        { } // this is how the code was really implemented
    Else
        { Return (Zero) }
} // loop through all BUF0 buffer elements

Return (One) // strings / buffers match
} // MCTH: Control Method to compare two strings

Method (TEST)
{
    Store ("+++++++ IndexOp5 Test", Debug)

    If (MCTH (\_OS, "Microsoft Windows NT"))
        { Store
(1, OSFL) }

    If (LNotEqual (OSFL, 1))
        { Return (11) }

    Return (0)
} // TEST

```



```

} // IDX5

//
// test IndexOp.asl
//
Scope (\_SB) // System Bus
{ // _SB system bus

    Method (C097)
    { Return (1) }

    Device (PCI2)
    { // Root PCI Bus
        Name (_HID, EISAID("PNP0A03"))
        Name (_ADR, 0x00000000)
        Name (_CRS, Buffer(26) {"\_SB_.PCI2._CRS....."})
        Method (_STA) {Return (0x0F)}

    Device (ISA)
    { // ISA bridge
        Name (_ADR, 0x00030000) // ISA bus ID

    Device (EC0)
    { // Embedded Controller
        Name (_GPE, 0) // EC use GPE0
        Name (_ADR, 0x0030000) // PCI address

        Method (_STA,0) // EC Status
        { Return(0xF) } // EC is functioning

    Name (_CRS, ResourceTemplate()
    {
        IO (Decode16, 0x62, 0x62, 1, 1)
        IO (Decode16, 0x66, 0x66, 1, 1)
    }
    )

    // create EC's region and field
    OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {
        // AC information
        ADP, 1, // AC Adapter 1:On-line, 0:Off-line
        AFLT, 1, // AC Adapter Fault 1:Fault 0:Normal
        BAT0, 1, // BAT0 1:present, 0:not present
        , 1, // reserved
        , 28, // filler to force DWORD alignment
    }

```



```

        // CMBatt information
        BPU0, 32, // Power Unit
        BDC0, 32, // Designed Capacity

BFC0, 32, // Last Full Charge Capacity
    BTC0, 32, // Battery Technology
    BDV0, 32, // Design Voltage
    BST0, 32, // Battery State
    BPR0, 32, // Battery Present Rate
        // (Designed Capacity)x(%)/{(h)x100}
    BRC0, 32, // Battery Remaining Capacity
        // (Designed Capacity)(%)^100
    BPV0, 32, // Battery Present Voltage
    BTP0, 32, // Trip Point
    BCW0, 32, // Design capacity of Warning
    BCL0, 32, // Design capacity of Low
    BCG0, 32, // capacity granularity 1
    BG20, 32, // capacity granularity 2
    BMO0, 32, // Battery model number field
    BIF0, 32, // OEM Information(00h)

    BSN0, 32, // Battery Serial Number
    BTY0, 32, // Battery Type (e.g., "Li-Ion")
    BTY1, 32, // Battery Type (e.g., "Li-Ion")
    } // Field
    } // EC0: Embedded Controller
    } // ISA bridge
} // PCI2 Root PCI Bus

Device (IDX0)
{ // Test device name
    Name (_HID, EISAID ("PNP0C0A")) // Control Method Battey ID
    Name (_PCL, Package() {_SB})
    Method (_STA)
    {
        // _STA bits 0-3 indicate existence of battery slot
        // _STA bit 4 indicates battery (not) present
        If (_SB.PCI2.ISA.EC0.BAT0)
            { Return (0x1F) } // Battery present
        else
            { Return (0x0F) } // Battery not present
    } // _STA

    Method (_BIF, Serialized)
    {
        Name (BUFR,

```



```

Package(13) { })
    Store (\_SB.PCI2.ISA.EC0.BPU0, Index (BUFR,0)) // Power Unit
    Store (\_SB.PCI2.ISA.EC0.BDC0, Index (BUFR,1)) // Designed Capacity
    Store (\_SB.PCI2.ISA.EC0.BFC0, Index (BUFR,2)) // Last Full Charge Capa.
    Store (\_SB.PCI2.ISA.EC0.BTC0, Index (BUFR,3)) // Battery Technology
    Store (\_SB.PCI2.ISA.EC0.BDV0, Index (BUFR,4)) // Designed Voltage
    Store (\_SB.PCI2.ISA.EC0.BCW0, Index (BUFR,5)) // Designed warning level
    Store (\_SB.PCI2.ISA.EC0.BCL0, Index (BUFR,6)) // Designed Low level
    Store (\_SB.PCI2.ISA.EC0.BCG0, Index (BUFR,7)) // Capacity granularity 1
    Store (\_SB.PCI2.ISA.EC0.BG20, Index (BUFR,8)) // Capacity granularity 2

    Store ("", Index (BUFR,9)) // Model Number

    Store ("", Index (BUFR,10)) // Serial Number

    Store
("LiOn", Index (BUFR,11)) // Battery Type

    Store ("Chicony", Index (BUFR,12)) // OEM Information

    Return (BUFR)
} // _BIF

Method (_BST,, Serialized)
{
    Name (BUFR, Package(4) { 1, 0x100, 0x76543210, 0x180 })
    Return (BUFR)
} // _BST

Method (_BTP,1)
{
    Store (arg0, \_SB.PCI2.ISA.EC0.BTP0) // Set Battery Trip point
}

Method (TEST,, Serialized)
{

    Store ("+++++++ IndexOp Test", Debug)

    // test storing into uninitialized package elements
    Name (PBUF, Package(4) { }) // leave uninitialized
    Store (0x01234567, Index (PBUF,0))
    Store (0x89ABCDEF, Index (PBUF,1))
    Store (0xFEDCBA98, Index (PBUF,2))
    Store (0x76543210, Index (PBUF,3))

```



```

// verify values stored into uninitialized package elements
If (LNotEqual (DerefOf (Index (PBUF,0)), 0x01234567))
    { Return (0x10) }

If (LNotEqual (DerefOf (Index (PBUF,1)), 0x89ABCDEF))
    { Return (0x11) }

If (LNotEqual (DerefOf (Index (PBUF,2)), 0xFEDCBA98))
    { Return (0x12) }

If (LNotEqual (DerefOf (Index (PBUF,3)), 0x76543210))
    { Return (0x13) }

// store _BIF package return value into Local0
Store (_BIF, Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Package
If (LNotEqual (Local1, 4)) // Package type is 4
    { Return (0x21) } // failure

// test storing into buffer field elements
Name (BUFR, Buffer(16))
    { // initial values
        00, 00, 00, 00, 00, 00, 00, 00, 00,
        00, 00, 00, 00, 00, 00, 00, 00,
    }
) // BUFR
// test storing into buffer field elements
Store (0x01234567, Index (BUFR,0)) // should only store 0x67
Store (0x89ABCDEF, Index (BUFR,4)) // should only store 0xEF
Store (0xFEDCBA98, Index (BUFR,8)) // should only store 0x98
Store (0x76543210, Index (BUFR,12)) // should only store 0x10

// verify storing into buffer field elements
If (LNotEqual (DerefOf (Index (BUFR,0)), 0x67))
    { Return (0x30) }

If (LNotEqual (DerefOf (Index (BUFR,1)), 0))
    { Return (0x31) }

If (LNotEqual (DerefOf (Index (BUFR,4)), 0xEF))
    { Return (0x34) }

```



```

        If (LNotEqual (DerefOf
(Index (BUFR,8)), 0x98))
        {   Return (0x38)   }

        If (LNotEqual (DerefOf (Index (BUFR,12)), 0x10))
        {   Return (0x3C)   }

        Return (0) // pass
    } // TEST
} // IDX0
} // _SB system bus

//
// test BitIndex.asl
//
// BitIndex test
// This is a test case for accessing fields defined as single bits in
// memory. This is done by creating two index fields that overlay the
// same DWORD in memory. One field accesses the DWORD as a DWORD, the
// other accesses individual bits of the same DWORD field in memory.
//
Scope (\_SB) // System Bus
{ // _SB system bus
    OperationRegion (RAM, SystemMemory, 0x800000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    { // Any access
        TREE, 3,
        WRD0, 16,
        WRD1, 16,
        WRD2, 16,
        WRD3, 16,
        WRD4, 16,
        DWRD, 32, // DWORD field
    }
    Field (RAM, AnyAcc, NoLock, Preserve)
    { // Any access
        THRE, 3,
        WD00, 16,
        WD01, 16,
        WD02, 16,
        WD03, 16,
        WD04, 16,
        BYT0, 8, // Start off with a BYTE
        BIT0, 1, // single-bit field
        BIT1, 1, // single-bit field
        BIT2, 1, // single-bit field
        BIT3, 1, // single-bit field
    }
}

```



```

BIT4, 1, // single-bit field
BIT5, 1, // single-bit field
BIT6, 1, // single-bit field
BIT7, 1, // single-bit field
BIT8, 1, // single-bit field
BIT9, 1, // single-bit field
BITA, 1, // single-bit field
BITB, 1, // single-bit field
BITC, 1, // single-bit field
BITD, 1, // single-bit field
BITE, 1, // single-bit field
BITF, 1, // single-bit field
BYTZ, 8, // End with a BYTE for a total of 32 bits
}

```

Device (BITI)

```

{ // Test device name

```

Method (MBIT) // Test single bit memory accesses

```

{

    If (LNotEqual (DWRD, 0x00))
    {
        Store (0xFF00, Local0)
    }
    Else
    {
        // Prime Local0 with 0...assume passing condition
        Store (0, Local0)

        // set memory contents to known values using DWORD field
        Store (0x5A5A5A5A, DWRD)

        // Given the value programmed into DWRD, only the odd bits
        // of the lower nibble should be set. BIT1, BIT3 should be set.
        // BIT0 and BIT2 should be clear

        If (BIT0)
        {
            Or (Local0, 0x01, Local0)
        }

        If (LNot (BIT1))

    {
        Or (Local0, 0x02, Local0)
    }
}

```



```

    If (BIT2)
    {
        Or (Local0, 0x04, Local0)
    }

    If (LNot (BIT3))
    {
        Or (Local0, 0x08, Local0)
    }

    // Now check the upper nibble. Only the "even" bits should
    // be set. BIT4, BIT6. BIT5 and BIT7 should be clear.
    If (LNot (BIT4))
    {
        Or (Local0, 0x10, Local0)
    }

    If (BIT5)
    {
        Or (Local0, 0x20, Local0)
    }

    If (LNot (BIT6))
    {
        Or (Local0, 0x40, Local0)
    }

    If (BIT7)
    {
        Or (Local0, 0x80, Local0)
    }
}

} // End Else DWRD zeroed out

Return (Local0)
} // MBIT: Test single bit memory accesses

Method (TEST)
{

    Store ("+++++++ BitIndex Test", Debug)

    // Zero out DWRD
    Store (0x00000000, DWRD)

    // MBIT returns zero if successful
    // This may be causing problems -- Return (MBIT)
    Store (MBIT, Local0)
}

```



```

        Return (Local0)
    } // TEST
} // BITI
} // _SB system bus

//
// test IndexOp3.asl
//
// Additional IndexOp test cases to support ACPICMCMB (control method battery
// test) on Compaq laptops. Test cases include storing a package into
// an IndexOp target and validating that changing source and destination
// package contents are independent of each other.
//
Scope (\_SB) // System Bus
{ // _SB system bus

    Name (C174, 13)
    Name (C175,
8)

    Device (C158)
    { // C158: AC Adapter device
        Name (_HID, "ACPI0003") // AC Adapter device
        Name (_PCL, Package (1) {\_SB})

        Method (_PSR)
        {
            Acquire (\_GL, 0xFFFF)
            Release (\_GL)
            And (Local0, 1, Local0) // Local0 &= 1
            Return (Local0)
        } // _PSR
    } // C158: AC Adapter device

    Name (C176, Package (4) {"Primary", "MultiBay", "DockRight", "DockLeft"})

    Name (C177, Package (4) {0x99F5, 0x99F5, 0x995F, 0x995F})

    Name (C178, Package (4)
    {
        Package (4) {0, 0, 0x966B, 0x4190},
        Package (4) {0, 0, 0x966B, 0x4190},
        Package (4) {0, 0, 0x966B, 0x4190},
        Package (4) {0, 0, 0x966B, 0x4190}
    }) // C178

    Name (C179, Package (4) {0, 0, 0x966B, 0x4190})

```



```

Name (C17A, Package (4)
{
    Package (3) {0, 0, 0},
    Package (3)
{0, 0, 0},
    Package (3) {0, 0, 0},
    Package (3) {0, 0, 0}
}) // C17A

Method (C17B, 1, Serialized)
{ // C17B: _BIF implementation
    Name (C17C, Package (13)
    { // C17C: _BIF control method return package
        0,          // Power Unit (0 ==> mWh and mW)
        0x99F5,     // Design Capacity
        0x99F5,     // Last Full Charge Capacity
        1,          // Battery Technology (1 ==> rechargeable)
        0x3840,     // Design Voltage
        0x1280,     // Design Capacity of Warning
        0x0AC7,     // Design Capacity of Low
        1,          // Battery Capacity Granularity 1 (Low -- Warning)
        1,          // Battery Capacity Granularity 2 (Warning -- Full)
        "2891",     // Model Number (ASCIIZ)
        "(-Unknown-)", // Serial Number
    (ASCIIZ)
        "LiIon",    // Battery Type (ASCIIZ)
        0           // OEM Information (ASCIIZ)
    }) // C17C: _BIF control method return package

    And (Arg0, 7, Local0)          // Local0 = Arg0 & 7

    ShiftRight (Local0, 1, Local4) // Local4 = Local0 >> 1

    Store (C179, Index (C178, Local4, )) // C178->Local4 = C179

    // verify source and destination packages can be altered independent
    // of each other (i.e., changing one's contents does NOT change other's
    // contents)
    Store (0x1234, Index (C179, 2, )) // C179[2] = 0x1234
    Store (DerefOf (Index (C179, 2, )), Local2) // Local2 = C179[2]
    if (LNotEqual (Local2, 0x1234))
    { Return (0x1234) }

    // Local2 = C178[0,2]
    Store (DerefOf (Index (DerefOf
(Index (C178, 0, )), 2, )), Local2)
    if (LNotEqual (Local2, 0x966B))
    { Return (0x1234) }

```



```

// Restore data to allow iterative execution
Store (0x966B, Index (C179, 2, )) // C179[2] = 0x966B

// C178[0,3] = 0x5678
Store (0x5678, Index (DerefOf (Index (C178, 0, )), 3, ))
// Local2 = C178[0,3]
Store (DerefOf (Index (DerefOf (Index (C178, 0, )), 3, )), Local2)
if (LNotEqual (Local2, 0x5678))
{ Return (0x5678) }

Store (DerefOf (Index (C179, 3, )), Local2) // Local2 = C179[3]
if (LNotEqual (Local2, 0x4190))
{ Return (0x5678) }

// Restore data to allow iterative execution
Store (0x4190, Index (DerefOf (Index (C178, 0, )), 3, )) // C179[2] = 0x4190

Return (C17C)
} // C17B: _BIF implementation

Device (C154)
{ // C154: Battery 0
Name (_HID, "*PNP0C0A") // Control Method Battery ID
Name (_UID, 0) // first instance

Method (_BIF)
{ // _BIF
Return (C17B (48))
} // _BIF
} // C154: Battery 0

Device (IDX3)
{
Method (LCLB,, Serialized)
{ // LCLB control method: test Index(Local#) where Local# is buffer
// Local0 is index counter
// Local1 is buffer
// Local2 receives BUFR[Local0] via Deref(Index(Local1...))
// Local3 is Local1 or Local2 object type
// Local4 is return error code

Name (BUFR, Buffer () {0, 1, 2, 3, 4, 5, 6, 7, 8, 9})

// save PKG into Local1
Store (BUFR, Local1)

```



```

    // save Local2
object type value into Local3
    Store (ObjectType (Local1), Local3)

    // validate Local1 is a Buffer
    If (LNotEqual (Local3, 3))    // Buffer type is 3
        { Return (0x9F) }

    Store (0, Local0)
    While (LLess (Local0, 5))
    { // While (Local0 < 5)
        // Local2 = Local1[Local0]
        Store (DerefOf (Index (Local1, Local0, )), Local2)

        // save Local2 object type value into Local3
        Store (ObjectType (Local2), Local3)

        // validate Local2 is a Number
        If (LNotEqual (Local3, 1))    // Number type is 1
            { Return (0x9E) }

        // validate Local1[Local0] value == Local0
        If (LNotEqual (Local0, Local2))
        { // Local0 != Local2 == PKG[Local0]
            // Local4 = 0x90
+ loop index (Local0)
            Add (0x90, Local0, Local4)

            // return 0x90 + loop index
            Return (Local4)
        }

        Increment (Local0)
    } // While (Local0 < 5)

    Store ("DerefOf(Index(LocalBuffer,,)) PASS", Debug)

    Return (0) // Pass
} // LCLB control method: test Index(Local#) where Local# is buffer

Method (LCLP,, Serialized)
{ // LCLP control method: test Index(Local#) where Local# is package
    // Local0 is index counter
    // Local1 is package
    // Local2 receives PKG[Local0] via Deref(Index(Local1...))
    // Local3 is Local1 or Local2 object type
    // Local4 is return error code

```



```

Name (PKG, Package () {0, 1, 2, 3, 4, 5, 6, 7, 8, 9})

// save PKG into Local1
Store (PKG, Local1)

// save Local2 object type value into Local3
Store (ObjectType (Local1), Local3)

// validate Local1 is a Package
If (LNotEqual (Local3, 4)) // Package type is 4
{ Return (0x8F) }

Store (0, Local0)
While (LLess (Local0, 5))
{ // While (Local0 < 5)
  // Local2 = Local1[Local0]
  Store (DerefOf (Index (Local1, Local0, )), Local2)

  // save Local2 object type value into Local3
  Store (ObjectType (Local2), Local3)

  // validate Local2 is a Number
  If (LNotEqual (Local3, 1)) // Number type is 1
  { Return (0x8E) }

  // validate Local1[Local0] value == Local0
  If (LNotEqual (Local0, Local2))
  { // Local0 != Local2 == PKG[Local0]

    // Local4 = 0x80 + loop index (Local0)
    Add (0x80, Local0, Local4)

    // return 0x80 + loop index
    Return (Local4)
  }

  Increment (Local0)
} // While (Local0 < 5)

Store ("DerefOf(Index(LocalPackage,,)) PASS", Debug)

Return (0) // Pass
} // LCLP control method: test Index(Local#) where Local# is package

Method (TEST)
{

```



```

Store ("+++++++ IndexOp3 Test", Debug)

// store _BIF package return value into Local0
Store (\_SB.C154._BIF, Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Package
If (LNotEqual (Local1, 4)) // Package type is 4
{ // failure: did not return a Package
(type 4)
    // if Local0 is a Number, it contains an error code
    If (LEqual (Local1, 1)) // Number type is 1
        { Return (Local0) } // return Local0 error code
    Else // Local0 is not a Number
        { Return (1) } // return default error code
} // failure: did not return a Package (type 4)

// save LCLB control method return value into Local2
Store (LCLB, Local2)
If (LNotEqual (Local2, 0))
{ Return (Local2) } // return failure code

// save LCLP control method return value into Local2
Store (LCLP, Local2)
If (LNotEqual (Local2, 0))
{ Return (Local2) } // return failure code

Return (0) // Pass
} // TEST
} // IDX3: Test device name
} // _SB system bus

//
// MTL developed test to exercise Indexes into buffers
//
Device(IDX7)
{

    Name (PKG4, Package() {
        0x2,
        "A short string",
        Buffer() {0xA, 0xB, 0xC, 0xD},
        0x1234,
        Package() {IDX7, 0x3}
    })
}

```



```
//
// Generic Test method
//
// This test returns 0xE (14) - ObjectType = Buffer Field
Method(TST1,, Serialized)
{
    Name (DEST, Buffer ()           // 62 characters plus NULL
        {"Destination buffer that is longer than the short source buffer"})

    // verify object type returned by Index(Buffer,Element,)
    Store (Index (DEST, 2, ), Local1)
    Store (ObjectType (Local1), Local2)
    If (LEqual(Local2, 14))
    {
        Return(0)
    }
    Else
    {
        Return(0x1)
    }
}
}
```

```
Method(TST2,, Serialized)
{
    Name (BUF0, Buffer() {0x1, 0x2, 0x3, 0x4, 0x5})
    Store(0x55, Index(BUF0, 2))
    Store(DerefOf(Index(BUF0, 2)), Local0)
    If (LEqual(Local0, 0x55))
    {
        Return(0)
    }
    Else
    {
        Return(0x2)
    }
}
}
```

```
Method(TST3,, Serialized)
{
    Name (BUF1, Buffer() {0x1, 0x2, 0x3, 0x4, 0x5})
    Store(Index(BUF1, 1), Local0)
    Store(DerefOf(Local0), Local1)
    If (LEqual(Local1, 0x2))
```



```

    {
        Return(0)
    }
Else
    {
        Return(0x3)
    }
}

Method(TST4)
{
    // Index (PKG4, 0) is a Number
    Store (Index (PKG4, 0), Local0)
    Store (ObjectType(Local0), Local1)
    If (LEqual(Local1, 0x1))
    {
        Return(0)
    }
Else
    {
        Return(0x4)
    }
}

Method(TST5)
{
    // Index (PKG4, 1) is a String
    Store (Index (PKG4, 1), Local0)
    Store (ObjectType(Local0), Local1)
    If (LEqual(Local1, 0x2))
    {
        Return(0)
    }
Else
    {
        Return(0x5)
    }
}

Method(TST6)
{
    // Index (PKG4, 2) is a Buffer
    Store (Index (PKG4, 2), Local0)
    Store (ObjectType(Local0), Local1)

```



```

    If (LEqual(Local1, 0x3))
    {
        Return(0)
    }
    Else
    {
        Return(0x6)
    }

}

Method(TST7)
{
    // Index (PKG4, 3) is a Number
    Store (Index (PKG4, 3), Local0)
    Store (ObjectType(Local0), Local1)
    If (LEqual(Local1, 0x1))
    {

Return(0)
    }
    Else
    {
        Return(0x7)
    }

}

Method(TST8)
{
    // Index (PKG4, 4) is a Package
    Store (Index (PKG4, 4), Local0)
    Store (ObjectType(Local0), Local1)
    If (LEqual(Local1, 0x4))
    {
        Return(0)
    }
    Else
    {
        Return(0x8)
    }

}

Method(TST9)
{
    // DerefOf (Index (PKG4, 0)) is a Number
    Store (DerefOf (Index (PKG4, 0)), Local0)

```



```

If (LEqual(Local0, 0x2))
{
    Return(0)
}
Else
{
    Return(0x9)
}

}

Method(TSTA)
{
    // DerefOf (Index (PKG4, 1)) is a String
    Store (DerefOf (Index (PKG4, 1)), Local0)
    Store (SizeOf(Local0), Local1)
    If (LEqual(Local1, 0xE))
    {

        Return(0)
    }
    Else
    {
        Return(0xA)
    }
}

Method(TSTB)
{
    // DerefOf (Index (PKG4, 2)) is a Buffer
    Store (DerefOf (Index (PKG4, 2)), Local0)
    Store (SizeOf(Local0), Local1)
    If (LEqual(Local1, 0x4))
    {
        Return(0)
    }
    Else
    {
        Return(0xB)
    }
}

Method(TSTC)
{
    // DerefOf (Index (PKG4, 3)) is a Number
    Store (DerefOf (Index (PKG4, 3)), Local0)

```



```

    If (LEqual(Local0, 0x1234))
    {
        Return(0)
    }
    Else
    {
        Return(0xC)
    }

}

Method(TSTD)
{
    // DerefOf (Index (PKG4, 4)) is a Package
    Store (DerefOf (Index (PKG4, 4)), Local0)
    Store (SizeOf(Local0), Local1)
    If (LEqual(Local1,
0x2))
    {
        Return(0)
    }
    Else
    {
        Return(0xD)
    }

}

Method(TSTE)
{
    // DerefOf (Index (PKG4, 2)) is a Buffer
    Store (DerefOf (Index (PKG4, 2)), Local0)
    // DerefOf (Index (Local0, 1)) is a Number
    Store (DerefOf (Index (Local0, 1)), Local1)
    If (LEqual(Local1, 0xB))
    {
        Return(0)
    }
    Else
    {
        Return(0xE)
    }

}

Method (TSTF,, Serialized)
{
    Name (SRCB, Buffer (12) {}) // 12 characters

```



```

Store ("Short Buffer", SRCB)

Name (DEST, Buffer ()           // 62 characters plus NULL
    {"Destination buffer that is longer than the short source buffer"})

// overwrite DEST contents, starting at buffer position 2
Store (SRCB, Index (DEST,
2))

//
// The DEST buffer element should be replaced with the last element of
// the SRCB element (i.e. 's'->'r')
Store (DerefOf (Index (DEST, 2)), Local0)

If (LNotEqual (Local0, 0x72))    // 'r'
{
    // DEST element does not match the value from SRCB
    Return(Or(Local0, 0x1000))
}

Return(0)
}

Method (TSTG,, Serialized)
{

    Name (SRCB, Buffer (12) { }) // 12 characters
    Store ("Short Buffer", SRCB)

    Name (DEST, Buffer ()           // 62 characters plus NULL
        {"Destination buffer that is longer than the short source buffer"})

    // overwrite DEST contents, starting at buffer position 2
    Store (SRCB, Index (DEST, 2))

    //
    // The next element of DEST should be unchanged
    //
    Store (DerefOf (Index (DEST,
3)), Local0)

    If (LNotEqual (Local0, 0x74))    // 't'
    {
        // DEST has been changed
        Return(Or(Local0, 0x2000))
    }

    //

```



```

// The next element of DEST should be unchanged
//
Store (DerefOf (Index (DEST, 4)), Local0)

If (LNotEqual (Local0, 0x69))    // 'i'
{
    // DEST has been changed
    Return(Or(Local0, 0x2100))
}

//
// The next element of DEST should be unchanged
//
Store (DerefOf (Index (DEST, 5)), Local0)

If (LNotEqual (Local0, 0x6E))    // 'n'
{
    // DEST has been changed
    Return(Or(Local0, 0x2200))
}

//
// The next element of DEST should be unchanged
//
Store (DerefOf (Index (DEST, 6)), Local0)

If (LNotEqual (Local0, 0x61))
// 'a'
{
    // DEST has been changed
    Return(Or(Local0, 0x2300))
}

//
// The next element of DEST should be unchanged
//
Store (DerefOf (Index (DEST, 7)), Local0)

If (LNotEqual (Local0, 0x74))    // 't'
{
    // DEST has been changed
    Return(Or(Local0, 0x2400))
}

//
// Verify DEST elements beyond end of SRCB buffer copy
// have not been changed
Store (DerefOf (Index (DEST, 14)), Local0)

```



```

If (LNotEqual (Local0, 0x66))    // 'f'
{
    // DEST has been changed
    Return(Or(Local0, 0x2400))
}

Return(0)
}

//
// This test shows that MS ACPI.SYS stores only the lower 8-bits of a 32-bit
// number into the index'ed buffer
//
Method (TSTH,,
Serialized)
{
    // Create a Destination Buffer
    Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwxyz"})

    // Store a number > UINT8 into an index of the buffer
    Store (0x12345678, Index(DBUF, 2))

    // Check the results
    Store (DerefOf (Index (DBUF, 2)), Local0)
    If (LNotEqual (Local0, 0x78)) // 0x78
    {
        Return(Or(Local0, 0x3000))
    }

    Store (DerefOf (Index (DBUF, 3)), Local0)
    If (LNotEqual (Local0, 0x64)) // 'd'
    {
        Return(Or(Local0, 0x3100))
    }

    Store (DerefOf (Index (DBUF, 4)), Local0)
    If (LNotEqual (Local0, 0x65)) // 'e'
    {
        Return(Or(Local0, 0x3200))
    }

    Store (DerefOf (Index (DBUF, 5)), Local0)
    If (LNotEqual (Local0, 0x66)) // 'f'
    {
        Return(Or(Local0, 0x3300))
    }
}

```



```

Return(0)
}

Method (TSTI,, Serialized)
{
    // Create a Destination Buffer
    Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwxyz"})

    // Store a String into an index of the buffer
    Store ("ABCDEFGH", Index(DBUF, 2))

    // Check the results
    Store (DerefOf (Index (DBUF, 2)), Local0)
    If (LNotEqual (Local0, 0x48)) // 'H'
    {
        Return(Or(Local0, 0x4000))
    }

    Store (DerefOf (Index (DBUF, 3)), Local0)
    If (LNotEqual (Local0, 0x64)) // 'd'
    {
        Return(Or(Local0, 0x4100))
    }

    Store (DerefOf (Index (DBUF, 4)), Local0)
    If (LNotEqual (Local0, 0x65)) // 'e'
    {
        Return(Or(Local0, 0x4200))
    }

    Store (DerefOf (Index (DBUF, 5)), Local0)
    If (LNotEqual (Local0, 0x66)) // 'f'
    {
        Return(Or(Local0,
0x4300))
    }

    Return(0)
}

Method(TSTJ,, Serialized)
{
    // Create a Destination Buffer
    Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwxyz"})

    // Store a number > UINT8 into an index of the buffer
    Store (0x1234, Index(DBUF, 2))

```



```

// Check the results
Store (DerefOf (Index (DBUF, 2)), Local0)
If (LNotEqual (Local0, 0x34)) // 0x34
{
    Return(Or(Local0, 0x3000))
}

Store (DerefOf (Index (DBUF, 3)), Local0)
If (LNotEqual (Local0, 0x64)) // 'd'
{
    Return(Or(Local0, 0x3100))
}

Store (DerefOf (Index (DBUF, 4)), Local0)
If (LNotEqual (Local0, 0x65)) // 'e'
{
    Return(Or(Local0, 0x3200))
}

Store (DerefOf (Index (DBUF, 5)), Local0)
If (LNotEqual (Local0, 0x66)) // 'f'
{
    Return(Or(Local0, 0x3300))
}

Return(0)
}

Method(TSTK,, Serialized)
{
    // Create a Destination Buffer
    Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwxy"})

    // Store a number > UINT8 into an index of the buffer
    Store (0x123456, Index(DBUF, 2))

    // Check the results
    Store (DerefOf (Index (DBUF, 2)), Local0)
    If (LNotEqual (Local0, 0x56)) // 0x56
    {
        Return(Or(Local0, 0x3000))
    }

    Store (DerefOf (Index (DBUF, 3)), Local0)
    If (LNotEqual (Local0, 0x64)) // 'd'
    {

```



```

    Return(Or(Local0, 0x3100))
}

Store (DerefOf (Index (DBUF, 4)), Local0)
If (LNotEqual (Local0, 0x65)) // 'e'
{
    Return(Or(Local0, 0x3200))
}

Store (DerefOf (Index (DBUF, 5)), Local0)
If (LNotEqual
(Local0, 0x66)) // 'f'
{
    Return(Or(Local0, 0x3300))
}

Return(0)
}

Method(TSTL,, Serialized)
{
    // Create a Destination Buffer
    Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwyz"})

    // Store a number > UINT8 into an index of the buffer
    Store (0x12, Index(DBUF, 2))

    // Check the results
    Store (DerefOf (Index (DBUF, 2)), Local0)
    If (LNotEqual (Local0, 0x12)) // 0x12
    {
        Return(Or(Local0, 0x3000))
    }

    Store (DerefOf (Index (DBUF, 3)), Local0)
    If (LNotEqual (Local0, 0x64)) // 'd'
    {
        Return(Or(Local0, 0x3100))
    }

    Store (DerefOf (Index (DBUF, 4)), Local0)
    If (LNotEqual (Local0, 0x65)) // 'e'
    {
        Return(Or(Local0, 0x3200))
    }

    Store (DerefOf (Index (DBUF,

```



```

5)), Local0)
    If (LNotEqual (Local0, 0x66)) // 'f'
    {
        Return(Or(Local0, 0x3300))
    }

    Return(0)
}

Method(TEST)
{
    Store ("+++++++ IndexOp7 Test", Debug)

    Store(TST1(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TST2(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TST3(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TST4(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TST5(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TST6(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }
}

```



```

    }

    Store(TST7(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TST8(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TST9(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TSTA(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TSTB(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TSTC(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TSTD(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TSTE(),
Local0)
    if (LGreater (Local0, 0))
    {

```



```

        Return(Local0)
    }

/* No longer ACPI compliant */
/*
    Store(TSTF(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }
*/

    Store(TSTG(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TSTH(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

/* No longer ACPI compliant */
/*
    Store(TSTI(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }
*/

    Store(TSTJ(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TSTK(), Local0)
    if (LGreater (Local0, 0))
    {
        Return(Local0)
    }

    Store(TSTL(), Local0)
    if (LGreater (Local0, 0))
    {

```



```

        Return(Local0)
    }

    Return(Local0)

}

} // Device(IDX7)

//
// test MatchOp.asl
//
// MatchOp test cases that utilize nested DerefOf(Index(...)) to validate
// MatchOp, DerefOfOp, and IndexOp of nested packages.
//
Device (MTCH)
{

    Method (TEST,, Serialized)
    {
        Store ("+++++++ MatchOp Test", Debug)

        Name (TIM0, Package ()
        {
            Package () {0x78, 0xB4, 0xF0, 0x0384},
            Package () {0x23, 0x21, 0x10, 0},
            Package () {0x0B, 9, 4, 0},
            Package () {0x70, 0x49, 0x36, 0x27, 0x19},
            Package () {0, 1, 2, 1, 2},
            Package () {0, 0, 0, 1, 1},
            Package () {4, 3, 2, 0},
            Package () {2, 1, 0, 0}
        }) // TIM0

        Name (TMD0, Buffer
(20) {0xFF, 0xFF, 0xFF, 0xFF })
        CreateDWordField (TMD0, 0, PIO0) // 0xFFFFFFFF
        CreateDWordField (TMD0, 4, DMA0)
        CreateDWordField (TMD0, 8, PIO1)
        CreateDWordField (TMD0, 12, DMA1)
        CreateDWordField (TMD0, 16, CHNF)

        // validate PIO0 value
        Store (PIO0, Local3)

        // save Local3 object type value into Local2
        Store (ObjectType (Local3), Local2)

```



```

// validate Local3 is a Number
If (LNotEqual (Local2, 1)) // Number type is 1
{ Return (2) } // failure

// validate Local3 Number value
If (LNotEqual (Local3, 0xFFFFFFFF)) // Number value 0xFFFFFFFF
{ Return (3) } // failure

Store ("DWordField PASS", Debug)

Store (0, Local5)
Store (Match (DerefOf (Index (TIM0, 1, )), MLE, Local5, MTR, 0, 0), Local6)

// save Local6 object type value into Local2
Store (ObjectType (Local6), Local2)

// validate Local6 is a Number
If (LNotEqual (Local2, 1)) // Number type is 1
{ Return (4) } // failure

Store ("Match(DerefOf(Index(TIM0,1)),... PASS", Debug)

// validate following produces a nested package to validate
// that MatchOp did not corrupt SearchPackage (TIM0)
Store (DerefOf (Index (TIM0, 1, )), Local4)

// save Local4 object type value into Local2
Store (ObjectType (Local4), Local2)

// validate Local4 is a Package
If (LNotEqual (Local2, 4)) // Package type is 4
{ Return (5) } // failure

Store ("DerefOf(Index(TIM0,1)),... PASS", Debug)

And (Match (DerefOf (Index (TIM0, 0, )), MGE, PIO0, MTR, 0, 0), 3, Local0)

// save Local0 object type value into Local2
Store (ObjectType (Local0), Local2)

// validate Local0 is a Number
If (LNotEqual (Local2, 1)) // Number type is 1
{ Return (6) } // failure

```



```

// validate Local0 Number value
If (LNotEqual (Local0, 3)) // Number value 3
{ Return (7) } // failure

Store ("And(Match(DerefOf(Index(TIM0,0)),... PASS", Debug)

// again, validate following produces a nested package
Store (DerefOf (Index (TIM0, 1, )), Local4)

// save Local4 object type value into Local2
Store (ObjectType (Local4), Local2)

// validate Local4 is a Package
If (LNotEqual (Local2, 4)) // Package type is 4
{ Return (8) } // failure

Store ("DerefOf(Index(TIM0,1)),... PASS again", Debug)

// again, validate following produces a nested package
Store (DerefOf (Index (TIM0, 1, )), Local4)

// save Local4 object type value
into Local2
Store (ObjectType (Local4), Local2)

// validate Local4 is a Package
If (LNotEqual (Local2, 4)) // Package type is 4
{ Return (9) } // failure

Store ("DerefOf(Index(TIM0,1)),... PASS again", Debug)

// test nested DerefOf(Index) operators
Store (DerefOf (Index (DerefOf (Index (TIM0, 1, )), Local0, )), Local1)

// save Local1 object type value into Local2
Store (ObjectType (Local1), Local2)

// validate Local1 is a Number
If (LNotEqual (Local2, 1)) // Number type is 1
{ Return (10) } // failure

// zero indicates pass, non-zero is an error code
If (LNotEqual (Local1, 0))
{ Return (11) } // failure

```



```

Store ("DerefOf(Index(DerefOf(Index(TIM0,1)),... PASS", Debug)

// again, validate following produces a nested package
Store
(DerefOf (Index (TIM0, 1, )), Local4)

// save Local4 object type value into Local2
Store (ObjectType (Local4), Local2)

// validate Local4 is a Package
If (LNotEqual (Local2, 4)) // Package type is 4
{ Return (12) } // failure

Store ("DerefOf(Index(TIM0,1)),... PASS again", Debug)

// retest nested DerefOf(Index) operators
Store (DerefOf (Index (DerefOf (Index (TIM0, 1, )), Local0, )), Local1)

// save Local1 object type value into Local2
Store (ObjectType (Local1), Local2)

// validate Local1 is a Number
If (LNotEqual (Local2, 1)) // Number type is 1
{ Return (13) } // failure

// zero indicates pass, non-zero is an error code
If (LNotEqual (Local1, 0))
{ Return (14) } // failure

Store ("DerefOf(Index(DerefOf(Index(TIM0,1)),... PASS again", Debug)

// again, validate following produces a nested package
Store (DerefOf (Index (TIM0, 1, )), Local4)

// save Local4 object type value into Local2
Store (ObjectType (Local4), Local2)

// validate Local4 is a Package
If (LNotEqual (Local2, 4)) // Package type is 4
{ Return (15) } // failure

Store ("DerefOf(Index(TIM0,1)),... PASS again", Debug)

```



```

        Return (0) // pass
    } // TEST
} // MTCH

//
// test WhileBrk.asl
//
// This code tests the Break term and While term
//
// Syntax of Break term
//   BreakTerm := Break
// The break operation causes the current package execution to complete.
//
// Syntax of While Term
//   WhileTerm := While(
//       Predicate //TermArg=>Integer
//   ) {TermList}
// Predicate is evaluated as an integer.
// If the integer is non-zero, the list of terms in TermList is executed.
// The operation repeats
// until the Predicate evaluates to zero.
//
// MTL NOTE: This test has been modified to reflect ACPI 2.0 break
// NOTE: This test, when run under the MS ACPI.SYS grinds the system to
// a halt.
//
Device (WHLB)
{
    Name (CNT0, 0)
    Name (CNT1, 0)

    Method (TEST)
    {
        // Check Break statement nested in If nested in While nested in
        // While only exits inner-most While loop
        Store (0, CNT0)

        While (LLess (CNT0, 4))
        {
            Store (0, CNT1)
            While (LLess (CNT1, 10))
            {
                if (LEqual (CNT1, 1))
                {
                    Break // exit encompassing loop
                }

                Increment (CNT1)
            }
        }
    }
}

```



```

    }

    If (LNotEqual (CNT1, 1))
    {
        // failure
        Return (7)
    }

    Increment (CNT0)
}

// Verify Break only exited inner-most While loop

If (LNotEqual (CNT0, 4))
{
    // failure
    Return (8)
}

Store ("While/While/If/Break PASS", Debug)

Store ("+++++++ WhileBrk Test", Debug)

// Check Break statement nested in While
Store (0, CNT0)

While (LLess (CNT0, 10))
{
    Break    // exit encompassing package
    Increment (CNT0)
}

If (LNotEqual (CNT0, 0)) // instruction after Break executed
{
    Return (4)
}

Store (0, CNT0)

// Test While Term
While (LLess (CNT0, 10))
{
    Increment (CNT0)
}

// Check if the while loop was executed until the condition is satisfied.

```



```

If (LNotEqual (CNT0, 10))
{
    Return (1)
}

// While loop in a reverse order
While (LGreater (CNT0, 0))
{
    Decrement (CNT0)
}

// Check if the while loop was executed until the condition is satisfied.
If (LNotEqual (CNT0, 0))
{
    Return (2)
}

Store ("While/Break PASS", Debug)

// Check Break statement nested in If nested in While
Store (0, CNT0)

While (LLess (CNT0, 10))
{
    if (LEqual (CNT0, 5))
    {
        Break    // exit encompassing Package (If)

        // if we execute the next instruction,
        // Break did not exit the loop
        Store (20, CNT0) // exit While loop with value larger
                        // than above
    }

    Increment (CNT0) // check if Break exited both If and
While
} // While

If (LGreater (CNT0, 19))
{ // instruction after Break inside IfOp executed
    Return (5)
}

//

```



```

// Break will exit out of the while loop, therefore
// the CNT0 counter should still Increment until 5
//
If (LNotEqual (CNT0, 5))
{ // instruction after Break inside WhileOp executed
  Return (6)
}
Store ("While/If/Break PASS", Debug)

// All the conditions passed
Return (0)
} // TEST
} // WHLB

//
// test IndexOp2.asl
//
// Additional IndexOp test cases to support ACPICMCMB (control method battery
// test) on Toshiba Portege 7020CT. Test cases include appropriate bit
// shifting of Field elements and reading Field elements greater than 64 bits.
//
// MTL NOTE: This test has been modified slightly from the original test
// to take into account ACPI
// specification limitations.
//
Scope (\_SB) // System Bus
{ // _SB system bus

  Device (MEM)
  { // MEM
    Name (_HID, 0x010CD041)
    Name (_STA, 0x0F)

    OperationRegion (SMEM, SystemMemory, 0x800000, 0x100)
    Field (SMEM, AnyAcc, NoLock, Preserve)
    { // Field: SMEM overlay using 32-bit field elements
      SMD0, 32, // 32-bits
      SMD1, 32, // 32-bits
      SMD2, 32, // 32-bits
      SMD3, 32 // 32-bits
    } // Field: SMEM overlay using 32-bit field elements
    Field (SMEM, AnyAcc, NoLock, Preserve)
    { // Field: SMEM overlay using greater than 32-bit field elements
      SME0, 69, // larger than an integer (32 or 64)
      SME1, 97 // larger than an integer
    } // Field: SMEM overlay using greater than 32-bit field elements
  }
}

```



OperationRegion (SRAM, SystemMemory,  
0x100B0000, 0xF000)

Field (SRAM, AnyAcc, NoLock, Preserve)

{ // Field: SRAM overlay

, 0x34000, // skip

IEAX, 0x20,

IEBX, 0x20,

IECX, 0x20,

IEDX, 0x20,

IESI, 0x20,

IEDI, 0x20,

IEBP, 0x20,

, 0x20,

OEAX, 0x20,

OEBX, 0x20,

OECX, 0x20,

OEDX, 0x20,

OESI, 0x20,

OEDI, 0x20,

OEBP, 0x20,

, 0x618, // skip

ACST, 1,

BES1, 1,

BES2, 1,

, 5, // skip

BMN1, 0x68,

BSN1, 0x58,

BTP1, 0x48,

BPU1, 0x20,

BDC1, 0x20,

BLF1, 0x20,

BTC1, 0x20,

BDV1, 0x20,

BST1, 0x20,

BPR1, 0x20,

BRC1, 0x20,

BPV1, 0x20,

, 0x20,

BCW1, 0x20,

BCL1, 0x20,

BG11, 0x20,

BG21, 0x20,

BOI1, 0x20,

, 0x530, // skip

BMN2, 0x68,

BSN2, 0x58,



BTP2, 0x48,  
 BPU2, 0x20,  
 BDC2, 0x20,  
 BLF2, 0x20,  
 BTC2, 0x20,  
 BDV2, 0x20,  
 BST2, 0x20,  
 BPR2, 0x20,  
 BRC2, 0x20,  
 BPV2, 0x20,  
 , 0x20,  
 BCW2, 0x20,  
 BCL2, 0x20,  
 BG12, 0x20,  
 BG22, 0x20,  
 BOI2, 0x20,  
 , 0x518, // skip  
 AC01, 0x10,  
 AC11,  
 0x10,  
 PSV1, 0x10,  
 CRT1, 0x10,  
 TMP1, 0x10,  
 AST1, 0x10,  
 AC21, 0x10,  
 AC31, 0x10,  
 AC02, 0x10,  
 AC12, 0x10,  
 PSV2, 0x10,  
 CRT2, 0x10,  
 TMP2, 0x10,  
 AST2, 0x10,  
 AC22, 0x10,  
 AC32, 0x10,  
 AC03, 0x10,  
 AC13, 0x10,  
 PSV3, 0x10,  
 CRT3, 0x10,  
 TMP3, 0x10,  
 AST3, 0x10,  
 AC23, 0x10,  
 AC33, 0x10,  
 , 0x80, // skip  
 TMPF, 0x10,  
 , 0x570, // skip  
 FANH, 1,  
 FANL, 7,  
 TF11, 1,



TF21, 1,  
 TF31, 1,  
 , 1,  
 TF10, 1,  
 TF20, 1,  
 TF30, 1,  
 , 1,  
 TP11, 1,  
 TP21, 1,  
 TP31, 1,  
 , 0x6D, // 109  
 GP50, 1,  
 GP51, 1,  
 GP52, 1,  
 GP53, 1,  
 , 4,  
 GP60, 1,  
 GP61, 1,  
 GP62, 1,  
 GP63, 1,  
 GP64, 1,  
 GP65, 1,  
 GP66, 1,  
 , 1,  
 GP70, 1,  
 GP71, 1,  
 GP72, 1,  
 GP73, 1,  
 GP74, 1,  
 GP75, 1,  
 GP76, 1,  
 , 1,  
 WED0, 1,  
 WED1, 1,  
 WED2, 1,  
 WED3, 1,  
 WED4, 1,  
 , 3,  
 SBL0, 1,  
 SBL1, 1,  
 SBL2, 1,  
 SBL3, 1,  
 , 4,  
 LIDS, 1,  
 VALF, 1,  
 , 2,  
 DCKI, 1,



```

DCKF, 1,
BT1F, 1,
BT2F, 1,
    , 0x7D0, // skip
HKCD, 8,
    , 8,
DLID, 0x20,
DSRN, 0x20,
    , 0x20,
BDID, 0x20,
DSPW, 1,
VGAF, 1,
VWE0, 1,
VWE1, 1,
PPSC, 1,
SPSC, 1,
EWLD, 1,
EWPS, 1,
    , 0x1768, // skip
PRES, 0x8000
} // Field: SRAM overlay
} // MEM

```

Device (BAT1)

```

{ // BAT1
    Name (_HID, EISAID ("PNP0C0A")) // Control Method Battery ID
    Name (_UID, 1)
    Name (_PCL, Package (1) {\_SB})

```

Method

(\_STA)

```

{ // _STA
    If (\_SB.MEM.BES1)
        { Return (0x1F) } // battery present
    Else
        { Return (0x0F) } // battery not present
} // _STA

```

Method (\_BIF, Serialized)

```

{ // _BIF
    Name (BUFR, Package (13) { })

    Store (\_SB.MEM.BPU1, Index (BUFR, 0))
    Store (\_SB.MEM.BDC1, Index (BUFR, 1))
    Store (\_SB.MEM.BLF1, Index (BUFR, 2))
    Store (\_SB.MEM.BTC1, Index (BUFR, 3))
    Store (\_SB.MEM.BDV1, Index (BUFR, 4))
    Store (\_SB.MEM.BCW1, Index (BUFR, 5))

```



```

        Store (\_SB.MEM.BCL1, Index (BUFR, 6))
        Store (\_SB.MEM.BG11, Index (BUFR, 7))
        Store (\_SB.MEM.BG21, Index (BUFR, 8))
        Store (\_SB.MEM.BMN1, Index (BUFR, 9))
        Store (\_SB.MEM.BSN1, Index (BUFR, 10))
        Store (\_SB.MEM.BTP1,
Index (BUFR, 11))
        Store (\_SB.MEM.BOI1, Index (BUFR, 12))

        Return (BUFR)
    } // _BIF
} // BAT1

Device (IDX2)
{
    Method (B2IB,, Serialized)
    { // B2IB: store from Buffer into Index'ed Buffer

        Name (SRCB, Buffer () {"Short Buffer"}) // 12 characters plus NULL

        Name (DEST, Buffer () // 62 characters plus NULL
            {"Destination buffer that is longer than the short source buffer"})

        // verify object type returned by Index(Buffer,Element,)

        Store (Index (DEST, 2, ), Local1)
        Store (ObjectType (Local1), Local2)

        If (LNotEqual (Local2, 14)) // Buffer Field is type 14
        {
            // Local2 indicates Local1 is not a Buffer Field

            Return (0x61)
        }

        // verify object type
and value returned by DerefOf(Index(Buffer,Element,))
        // should return Number containing element value

        Store (DerefOf (Local1), Local3)
        Store (ObjectType (Local3), Local4)

        If (LNotEqual (Local4, 1)) // Number is type 1
        {
            // Local2 indicates Local1 is not a Number
            Return (0x62)
        }
    }
}

```



```

Else
{
    If (LNotEqual (Local3, 0x73))    // expect 's' element from DEST
    {
        Return (0x63)
    }
}

Store ("DerefOf(Index(Buffer,,)) PASS", Debug)

//
// The following sections have been rewritten because storing into
// an Indexed buffer only changes one byte - the FIRST byte of the
// buffer is written to the source index. This is the ONLY byte

// written -- as per ACPI 2.0
//
// Overwrite DEST contents, at buffer position 2 [only]

Store (SRCB, Index (DEST, 2, ))

//
// Check that the next byte is not changed
//
Store (DerefOf (Index (DEST, 3, )), Local0)
If (LNotEqual (Local0, 0x74))    // 't'
{
    // DEST element is not matching original value
    If (LEqual (Local0, 0x68))
    {
        // DEST element was altered to 'h'
        Return (0x68)
    }
    Else
    {
        // DEST element is an unknown value
        Return (0x69)
    }
}

//
// Check that the elements beyond the SRCB buffer copy
// have not been altered.

//
Store (DerefOf (Index (DEST, 14)), Local0)

```



```

//
// This should be an 'f'.
//
If (LNotEqual (Local0, 0x66))
{
    // DEST element was zero'd by buffer copy
    If (LEqual (Local0, 0))
    {
        // DEST element is zero
        Return (0x6A)
    }
    Else
    {
        // DEST element is unknown value
        Return (0x6B)
    }
}

Store ("Store(SRCB,Index(Buffer,,)) PASS", Debug)

//
// verify altering SRCB does NOT alter DEST
//
Store (0x6A, Index (SRCB, 1)) // SRCB = "Sjort Buffer"

Store (DerefOf (Index (SRCB, 1)), Local0)

If (LNotEqual (Local0, 0x6A)) // 'j'

{
    // SRCB element is unaltered
    Return (0x71)
}

Store (DerefOf (Index (DEST, 3)), Local0) // DEST = "Destination buffer that..."

If (LNotEqual (Local0, 0x74)) // 't'
{
    // DEST element is altered
    If (LEqual (Local0, 0x6A)) // 'j'
    {
        // SRCB change altered DEST element
        Return (0x72)
    }
    Else
    {
        // DEST element is unknown value
        Return (0x73)
    }
}

```



```

    }
}

// verify altering DEST does NOT alter SRCB

Store (0x6B, Index (DEST, 4, )) // DEST = "DeSkination buffer..."

Store (DerefOf (Index (DEST, 4, )), Local0)

If (LNotEqual (Local0, 0x6B))    // 'k'

{
    // DEST element is unaltered
    Return (0x74)
}

Store (DerefOf (Index (SRCB, 2, )), Local0)

If (LNotEqual (Local0, 0x6F))    // 'o'
{ // SRC element is altered
    If (LEqual (Local0, 0x6B)) // 'k'
    {
        // DEST change altered SRCB element
        Return (0x75)
    }
    Else
    {
        // SRCB element is unknown value
        Return (0x76)
    }
}

Store ("SRCB and DEST independent PASS", Debug)

// verify string can be written to Index target/destination
// Only FIRST byte is written

Store ("New Buff", Index (DEST, 2, )) // DEST = "DeNkination buffer..."

Store (DerefOf (Index (DEST, 2, )), Local0)

If (LNotEqual (Local0, 0x4E))    // 'N'
{
    // DEST element is unaltered
    Return (0x81)
}

```



```

Store (DerefOf (Index (DEST, 6, )), Local0)

If (LNotEqual (Local0, 0x61))    // 'a'
{
    // DEST element is unaltered
    Return (0x82)
}

Store (DerefOf (Index (DEST, 10, )), Local0)

If (LNotEqual (Local0, 0x6E))    // 'n'
{
    // DEST element is unaltered
    Return (0x83)
}

Store ("Store(String,Index) PASS", Debug)

Return (0) // pass
} // B2IB: store from Buffer into Index'ed Buffer

Method (FB2P,, Serialized)
{ // FB2P: store from Field Buffer into Index'ed Package
    Name (DEST, Package (2) { })

// initialize memory using 32-bit field elements
    Store (0x01234567, \_SB.MEM.SMD0)
    Store (0x89ABCDEF, \_SB.MEM.SMD1)
    Store (0xFEDCBA98, \_SB.MEM.SMD2)
    Store (0x76543210, \_SB.MEM.SMD3)

// move greater than 64-bit buffers into DEST package
    Store (\_SB.MEM.SME0, Index (DEST, 0))
    Store (\_SB.MEM.SME1, Index (DEST, 1))

// validate DEST contents
    Store (DerefOf (Index (DEST, 0, )), Local0)
    Store (DerefOf (Index (DEST, 1, )), Local1)

// verify Local0 and Local1 are Buffers
    Store (ObjectType (Local0), Local2)
    if (LNotEqual (Local2, 3)) // Buffer type is 3
    {
        Return (0x11)
    }
}

```



```

Store (ObjectType (Local1), Local3)
if (LNotEqual (Local3, 3)) // Buffer type is 3
{

Return (0x12)
}

// validate DEST buffer contents
Store (DerefOf (Index (DerefOf (Index (DEST, 0)), 0)), Local4)
If (LNotEqual (Local4, 0x67))
{
    Return (0x13)
}

Store (DerefOf (Index (DerefOf (Index (DEST, 0)), 1)), Local4)
If (LNotEqual (Local4, 0x45))
{
    Return (0x14)
}

Store (DerefOf (Index (DerefOf (Index (DEST, 0)), 4)), Local4)
If (LNotEqual (Local4, 0xEF))
{
    Return (0x15)
}

Store (DerefOf (Index (DerefOf (Index (DEST, 0, )), 5, )), Local4)
If (LNotEqual (Local4, 0xCD))
{
    Return (0x16)
}

Store ("Store(Mem,PkgElement) PASS", Debug)

// validate changing source \_SB.MEM.SMD* does
not impact DEST
Store (0x12345678, \_SB.MEM.SMD0)

Store (DerefOf (Index (DerefOf (Index (DEST, 0, )), 0, )), Local5)
If (LNotEqual (Local5, 0x67))
{
    Return (0x21)
}

Store (DerefOf (Index (DerefOf (Index (DEST, 0, )), 1, )), Local5)
If (LNotEqual (Local5, 0x45))
{

```



```

    Return (0x22)
}

// validate changing DEST does not impact source \_SB.MEM.SMD*
Store (0x30, Index (DerefOf (Index (DEST, 0)), 0))

Store (DerefOf(Index (DerefOf (Index (DEST, 0)), 0)), Local5)
If (LNotEqual (Local5, 0x30))
{
    Return (0x23)
}

//
// This section was modified from the original iPCO code because
// it attempted to compare two buffers. This is not allowed until

// ACPI v2.0, so the test has been modified to just check the
// changed \_SB.MEM.SMD0
//
Store (\_SB.MEM.SMD0, Local5)

If(LNotEqual(Local5, 0x12345678))
{
    Return (0x24)
}

Store ("Mem and Pkg independent PASS", Debug)

Return (0)
} // FB2P: store from Field Buffer into Index'ed Package

Method (TEST)
{
    Store ("+++++++ IndexOp2 Test", Debug)

    // store _BIF package return value into Local0

    Store (\_SB.BAT1._BIF, Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Package
    If (LNotEqual (Local1, 4)) // Package type is 4
    {
        // failure
        Return (2)
    }
}

```



```

}

// validate source and destination buffers are independent of each
// of each other (i.e., changing one's contents does not change
// other's contents) using B2IB (store from Buffer into Index'ed
// Buffer) and FB2P (store from Field Buffer into Index'ed Package)

// call B2IB (store from Buffer into Index'ed Buffer)
Store (B2IB, Local2) // Local2 is B2IB return value

// save Local2 object type value into Local3
Store (ObjectType (Local2), Local3)

// validate Local2 is a Number
If (LNotEqual (Local3, 1)) // Number type is 1
{
    // failure
    Return (4)
}

// zero indicates pass, non-zero is an error code
If (LNotEqual (Local2, 0))
{
    // return B2IB error code

Return (Local2)
}

// call FB2P (store from Field Buffer into Index'ed Package)
Store (FB2P, Local2) // Local2 is FB2P return value

// save Local2 object type value into Local3
Store (ObjectType (Local2), Local3)

// validate Local2 is a Number
If (LNotEqual (Local3, 1)) // Number type is 1
{
    // failure
    Return (5)
}

// zero indicates pass, non-zero is an error code
If (LNotEqual (Local2, 0))
{
    // return FB2P error code
    Return (Local2)
}

```



```

        Return (0)
    } // TEST
} // IDX2: Test device name
} // _SB system bus

//
// test SizeOf.asl
//
// Test for SizeOf
//   test cases include following SizeOf arguments:
//   buffer, buffer
//   field;
//   control method argument, control method local variable;
//   control method return values;
//   direct string, string;
//   package;
//   buffer, package, and string package elements
//
// MTL NOTE: This test has been modified to remove any SizeOf(Index(Buff,...
// calls because it is not legal to perform a SizeOf operation on a Buffer Field.
// This test has also been extended to test additional Package element sizes.
//
Device (SIZO)
{
    // SAR0 control method validates SizeOf(Arg)
    //   SAR0 should only be called by SARG
    Method (SAR0, 2)
    // Arg0   object to determine size of
    // Arg1   expected Arg length
    { // SAR0: SizeOf(Arg) test control method
        // Local0 Arg0 length
        // Local1 Local0 object type

        // Store first string size (Arg0) into Local7
        Store (SizeOf (Arg0), Local0)

        // save Local0 object type value
into Local1
        Store (ObjectType (Local0), Local1)

        // validate Local0 is a Number
        If (LNotEqual (Local1, 1)) // Number type is 1
        { Return (0x21) }

        // If strings are not of equal size, return error code
        If (LNotEqual (Local0, Arg1))

```



```

    { Return (0x22) }

Return (0)
} // SAR0: SizeOf(Arg) test control method

Method (SARG,, Serialized)
{ // SARG: SizeOf(Arg) test control method
    Name (BUFR, Buffer (12) {}) // uninitialized Buffer
    Name (BUF1, Buffer() {0x01, 0x02, 0x03, 0x04, 0x05})
    Name (PKG0, Package (4) {}) // uninitialized Package
    Name (STR0, "String")
    Name (PKG1, Package (4)
    {
        BUFR,
        "String2",
        STR0,
        PKG0
    }) // PKG1

    Name (PKG2, Package (4)
    {
        Buffer
(15) {},
        "String 1",
        Package (2) {}
    }) // PKG2

    // Namespace entry buffer reference
    Store (SAR0 (BUFR, 12), Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Number
    If (LNotEqual (Local1, 1)) // Number type is 1
    {
        Return (0x23)
    }

    If (LNotEqual (Local0, 0)) // Local0 is SAR0 return error code
    {
        Return (Local0)
    }

    Store ("SizeOf(Arg=BUFR) PASS", Debug)

    // Namespace entry package reference

```



```

Store (SAR0 (PKG0, 4), Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Number
If (LNotEqual (Local1, 1)) // Number type is 1
{

Return (0x24)
}

If (LNotEqual (Local0, 0)) // Local0 is SAR0 return error code
{
    Return (Local0)
}

Store ("SizeOf(Arg=PKG0) PASS", Debug)

// Namespace entry string reference
Store (SAR0 (STR0, 6), Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Number
If (LNotEqual (Local1, 1)) // Number type is 1
{
    Return (0x25)
}

If (LNotEqual (Local0, 0)) // Local0 is SAR0 return error code
{
    Return (Local0)
}

Store ("SizeOf(Arg=STR0) PASS", Debug)

// direct string reference
Store (SAR0 ("String", 6), Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate

```



Local0 is a Number

```
If (LNotEqual (Local1, 1))    // Number type is 1
{
    Return (0x26)
}
```

```
If (LNotEqual (Local0, 0))    // Local0 is SAR0 return error code
{
    Return (Local0)
}
```

Store ("SizeOf(Arg=String) PASS", Debug)

Store (0x55, Index (BUF1, 2))

/\*\*\*\*\*\*

//

// This section is commented because it is illegal to

// perform a SizeOf operation on a Buffer Field

//

// Namespace BufferField reference

Store (SAR0 (Index (BUFR, 2, ), 10), Local0)

// save Local0 object type value into Local1

Store (ObjectType (Local0), Local1)

// validate Local0 is a Number

```
If (LNotEqual (Local1, 1))    // Number type is 1
{ Return (0x27) }
```

```
If (LNotEqual
(Local0, 0))    // Local0 is SAR0 return error code
{ Return (Local0) }
```

Store ("SizeOf(Arg=BufferField) PASS", Debug)

\*\*\*\*\*/

// Namespace BufferPackageElement reference

//

Store (SAR0 (Index(PKG1, 0), 12), Local0)

// save Local0 object type value into Local1

Store (ObjectType (Local0), Local1)

// validate Local0 is a Number

```
If (LNotEqual (Local1, 1))    // Number type is 1
{
```

```
    Return (0x28)
```



```

}

If (LNotEqual (Local0, 0))    // Local0 is SAR0 return error code
{
    Return (Local0)
}

Store ("SizeOf(Arg=PackageBuffer NTE Reference Element) PASS", Debug)

// Namespace StringPackageElement reference
Store (SAR0 (Index (PKG1, 1, ), 7), Local0)

// save Local0 object type
value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Number
If (LNotEqual (Local1, 1))    // Number type is 1
{
    Return (0x29)
}

If (LNotEqual (Local0, 0))    // Local0 is SAR0 return error code
{
    Return (Local0)
}

Store ("SizeOf(Arg=Package String Element) PASS", Debug)

// Namespace StringPackageElement reference
Store (SAR0 (Index (PKG1, 2, ), 6), Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Number
If (LNotEqual (Local1, 1))    // Number type is 1
{
    Return (0x2A)
}

If (LNotEqual (Local0, 0))    // Local0 is SAR0 return error code
{
    Return (Local0)
}

```



```
Store ("SizeOf(Arg=Package  
String NTE Reference Element) PASS", Debug)
```

```
// Namespace PackagePackageElement reference  
Store (SAR0 (Index (PKG1, 3, ), 4), Local0)
```

```
// save Local0 object type value into Local1  
Store (ObjectType (Local0), Local1)
```

```
// validate Local0 is a Number  
If (LNotEqual (Local1, 1)) // Number type is 1  
{  
    Return (0x2B)  
}
```

```
If (LNotEqual (Local0, 0)) // Local0 is SAR0 return error code  
{  
    Return (Local0)  
}
```

```
Store ("SizeOf(Arg=Package Package NTE Reference Element) PASS", Debug)
```

```
// Package Buffer Element  
Store (SAR0 (Index (PKG2, 0), 15), Local0)
```

```
// save Local0 object type value into Local1  
Store (ObjectType (Local0), Local1)
```

```
// validate Local0 is a Number  
If (LNotEqual (Local1, 1)) // Number type is 1
```

```
{  
    Return (0x2B)  
}
```

```
If (LNotEqual (Local0, 0)) // Local0 is SAR0 return error code  
{  
    Return (Local0)  
}
```

```
Store ("SizeOf(Arg=Package Buffer Element) PASS", Debug)
```

```
// Package String Element  
Store (SAR0 (Index (PKG2, 1), 8), Local0)
```

```
// save Local0 object type value into Local1  
Store (ObjectType (Local0), Local1)
```



```

// validate Local0 is a Number
If (LNotEqual (Local1, 1)) // Number type is 1
{
    Return (0x2B)
}

If (LNotEqual (Local0, 0)) // Local0 is SAR0 return error code
{
    Return (Local0)
}

Store ("SizeOf(Arg=Package String Element) PASS", Debug)

// Package Package Element
Store (SAR0 (Index (PKG2, 2), 2), Local0)

// save Local0 object type value into Local1

Store (ObjectType (Local0), Local1)

// validate Local0 is a Number
If (LNotEqual (Local1, 1)) // Number type is 1
{
    Return (0x2B)
}

If (LNotEqual (Local0, 0)) // Local0 is SAR0 return error code
{
    Return (Local0)
}

Store ("SizeOf(Arg=Package Package Element) PASS", Debug)

Store ("SizeOf(Arg) PASS", Debug)

Return (0)
} // SARG: SizeOf(Arg) test control method

Method (SBUF,, Serialized)
{ // SBUF: SizeOf(Buffer) test control method
    Name (BUFR, Buffer (12) { })

    // store size of BUFR buffer into Local0
    Store (SizeOf (BUFR), Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

```



```

// validate Local0 is a Number
If (LNotEqual (Local1, 1)) // Number type is 1
{
    Return (0x31)
}

If (LNotEqual (Local0, 12)) // BUFR size is 12
{
    Return (0x32)
}

Store ("SizeOf(BUFR) PASS", Debug)

Return (0)
} // SBUF: SizeOf(Buffer) test control method

/*****
//
// This section is commented because it is illegal to
// perform a SizeOf operation on a Buffer Field
//
Method (SIND)
{ // SIND: SizeOf(Index(.,)) test control method
    Name (BUFR, Buffer (12) { })

    // store size of Index(BUFR,2,) buffer into Local0
    Store (SizeOf (Index (BUFR, 2, )), Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Number
    If (LNotEqual (Local1, 1)) // Number type is 1
    {

Return (0x41)
    }

    If (LNotEqual (Local0, 10)) // 12 - 2 = 10
    {
        Return (0x42)
    }

    Store ("SizeOf(Index(BUFR,.,)) PASS", Debug)

    // TBD: strings and packages

```



```

Return (0)
} // SIND: SizeOf(Index(,)) test control method
*****/

```

```

Method (SLOC,, Serialized)
{ // SLOC: SizeOf(Local) test control method
  Name (BUFR, Buffer (12) {}) // uninitialized Buffer
  Name (STR0, "String")
  Name (PKG0, Package (4) {}) // uninitialized Package

```

```

// store BUFR Buffer into Local2
Store (BUFR, Local2)

```

```

// store size of BUFR buffer into Local0
Store (SizeOf (Local2), Local0)

```

```

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

```

```

// validate Local0 is a Number

```

```

If (LNotEqual (Local1, 1)) // Number type is 1
{
  Return (0x51)
}

```

```

If (LNotEqual (Local0, 12)) // BUFR size is 12
{
  Return (0x52)
}

```

```

Store ("SizeOf(Local2=Buffer) PASS", Debug)

```

```

// store STR0 string into Local2
Store (STR0, Local2)

```

```

// store size of STR0 buffer into Local0
Store (SizeOf (Local2), Local0)

```

```

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

```

```

// validate Local0 is a Number
If (LNotEqual (Local1, 1)) // Number type is 1
{

```



```

    Return (0x53)
}

If (LNotEqual (Local0, 6))    // STR0 size is 6
{
    Return (0x54)
}

Store ("SizeOf(Local2=String) PASS", Debug)

// store PKG0 Package into Local2
Store (PKG0,
Local2)

// store size of PKG0 buffer into Local0
Store (SizeOf (Local2), Local0)

// save Local0 object type value into Local1
Store (ObjectType (Local0), Local1)

// validate Local0 is a Number
If (LNotEqual (Local1, 1))    // Number type is 1
{
    Return (0x55)
}

If (LNotEqual (Local0, 4))    // PKG0 size is 4
{
    Return (0x56)
}

Store ("SizeOf(Local2=Package) PASS", Debug)

Return (0)
} // SLOC:  SizeOf(Local) test control method

Method (TEST)
{
    Store ("+++++++ SizeOf Test", Debug)

    // Store current operating system string into Local0
    Store (_OS, Local0)

    Store (SizeOf (_OS), Local3)

    // save Local3 object type value into Local4

```



```

Store (ObjectType (Local3), Local4)

// validate
Local3 is a Number
If (LNotEqual (Local4, 1)) // Number type is 1
{
    // failure
    Return (0x61)
}

// Store current operating system string into Local0
// This verifies above SizeOf(_OS) did not corrupt ACPI namespace
Store (_OS, Local0)

// Store SARG [Validate SizeOf(Arg)] return value into Local1
Store (SARG, Local1)

// save Local1 object type value into Local2
Store (ObjectType (Local1), Local2)

// validate Local1 is a Number
If (LNotEqual (Local2, 1)) // Number type is 1
{
    // failure
    Return (0x62)
}

// zero indicates pass, non-zero is an error code
If (LNotEqual (Local1, 0))
{
    // return SARG error code
    Return (Local1)
}

// Store SBUF [Validate
SizeOf(Buffer)] return value into Local1
Store (SBUF, Local1)

// save Local1 object type value into Local2
Store (ObjectType (Local1), Local2)

// validate Local1 is a Number
If (LNotEqual (Local2, 1)) // Number type is 1
{
    // failure
    Return (0x63)
}

```



```

// zero indicates pass, non-zero is an error code
If (LNotEqual (Local1, 0))
{
    // return SBUF error code
    Return (Local1)
}

/*****

//
// This section is commented because it is illegal to
// perform a SizeOf operation on a Buffer Field
//
// Store SIND [verify SizeOf(Index(.,,))] return value into Local1
Store (SIND, Local1)

// save Local1 object type value into Local2
Store (ObjectType
(Local1), Local2)

// validate Local1 is a Number
If (LNotEqual (Local2, 1)) // Number type is 1
{
    // failure
    Return (0x64)
}

// zero indicates pass, non-zero is an error code
If (LNotEqual (Local1, 0))
{
    // return SARG error code
    Return (Local1)
}
*****/

// Store SLOC [verify SizeOf(Local)] return value into Local1
Store (SLOC, Local1)

// save Local1 object type value into Local2
Store (ObjectType (Local1), Local2)

// validate Local1 is a Number
If (LNotEqual (Local2, 1)) // Number type is 1
{
    // failure
    Return (0x65)
}

```



```

// zero indicates pass, non-zero is an error code
If (LNotEqual (Local1, 0))
{
    // return SLOC error code
    Return (Local1)
}

// TBD:  SizeOf (METH) -- where METH control method returns
//        buffer, BufferField, string, package, package element

Return (0)
} // TEST
} // SIZO

//
// test SmiShare.asl
//
Scope (\_SB) // System Bus
{ // _SB system bus
    // Declare an OpRegion in Memory starting at offset 0x400000 that is 10 bytes long
    OperationRegion(RAM1, SystemMemory, 0x400000, 0xA)

    Field (RAM1, AnyAcc, NoLock, Preserve)
    {
        BI1T, 1, // Create some bits in memory to access
        BI2T, 2,
        BI3T, 3,
        LST2, 2
    } // End Field RAM1

    Field (RAM1, WordAcc, NoLock, WriteAsZeros)
    {
        WRD, 16
    } // End 2nd Field RAM1

    Field (RAM1, ByteAcc, NoLock, WriteAsOnes)
    {
        BYTE, 8
    } //
End 3rd Field RAM1

    Field (RAM1, ByteAcc, NoLock, Preserve)
    {
        SMIC, 8,
        SMID, 8
    }
}

```



```

Device (MBIT)
{
    Method (_INI)
    {
        Store (0, BI1T)
        Store (3, BI2T)
        Store (7, BI3T)
        Store (0, LST2)
    } // End _INI Method
} // End Device MBIT

Device (MWRD)
{
    Method (_INI)
    {
        Store (0, WRD)
    } // End _INI Method
} // End Device MWRD

Device (MBYT)
{
    Method (_INI)
    {
        Store (0, BYTE)
        Store (0xC, SMIC)
        Store (0xD, SMID)
    } // End _INI Method
} // End Device MBYT

/*
// Declare an OpRegion in Memory starting at offset 0x400000 that is 10 bytes long
OperationRegion(\RAM1, SystemMemory, 0x400000, 0xA)

Field (\RAM1, AnyAcc,
NoLock, Preserve)
{
    BI1T, 1,    // Create some bits in memory to access
    BI2T, 2,
    BI3T, 3,
    LST2, 2
} // End Field RAM1

Field (\RAM1, WordAcc, NoLock, WriteAsZeros)
{
    WRD, 16
} // End 2nd Field RAM1

```



Field (\RAM1, ByteAcc, NoLock, WriteAsOnes)

```
{  
    BYTE, 8  
} // End 3rd Field RAM1
```

Field (\RAM1, ByteAcc, NoLock, Preserve)

```
{  
    SMIC, 8,  
    SMID, 8  
}
```

\*/

Method (SMIX)

```
{  
    Return (BYTE)  
} // End SMIX
```

Method (EVNT)

```
{  
    Store (SMIX, Local0)  
  
    Notify (\_SB_, 0x29)  
    If (And (Local0, 0x01))  
    {    Notify (\_SB_.SMIS, 0x21)}  
  
    If (And (Local0, 0x02))  
    {    Notify (\_SB_.SMIS, 0x22)}  
  
    If (And (Local0, 0x04))  
    {    Notify (\_SB_.SMIS, 0x24)}  
  
    If (And (Local0, 0x08))  
    {    Notify (\_SB_.SMIS, 0x28)}  
  
} // End Method EVNT
```

Method (NTFY)

```
{  
    Notify (\_SB_, 1)  
    Notify (\_TZ_.TZ1, 2)  
    Notify (\_PR_.CPU0, 3)  
  
    Notify (\_SB_, 0x81)  
    Notify (\_TZ_.TZ1, 0x82)  
    Notify (\_PR_.CPU0, 0x83)  
}
```

Device (SMIS)

```
{
```



Method (BINK)

```
{
    Store (0, Local0)          // Zero out Local0

    If (LNotEqual (SMID, 0xD))
    { Or (0x80, Local0, Local0)}

    If (LNotEqual (SMIC, 0xC))
    { Or (0x40, Local0, Local0)}

    If (LNotEqual (BYTE, 0))
    { Or (0x20, Local0, Local0)}

    If (LNotEqual (WRD, 0))
    { Or (0x10, Local0, Local0)}

    If (LNotEqual (LST2, 0))
    { Or (0x8, Local0, Local0)}

    If (LNotEqual (BI3T, 0x7))
    { Or (0x4, Local0,
Local0)}

    If (LNotEqual (BI2T, 0x3))
    { Or (0x2, Local0, Local0)}

    If (LNotEqual (BI1T, 0))
    { Or (0x1, Local0, Local0)}

    Return (Local0)
} // End Method BINK
```

Method (TEST)

```
{
    Store ("+++++++ SmiShare Test", Debug)

    // Expect EVNT to generate Notify value we just previously
    // stored in BYTE

    Store (0x20, BYTE)
    EVNT ()
    Store (0x21, BYTE)
    EVNT ()
    Store (0x22, BYTE)
    EVNT ()
    Store (0x23, BYTE)
    EVNT ()
}
```



```

    NTFY ()
    Return (0) // pass
} // End Method TEST
} // Device SMIS

```

```

Device(CNDT)
{
    Method(TEST)
    {
        If (ECOK)
        {
            return("Broken")
        }
        Else
        {
            return("Works")
        }
    }
}

```

```

    Method(ECOK)
    {
        Return(0x0)
    }
}

```

```

} // _SB system bus

```

```

/* Test a very big buffer */

```

```

Name(WQAB, Buffer(6756)
{
    0x46,0x4F,0x4D,0x42,0x01,0x00,0x00,0x00,
    0x54,0x1A,0x00,0x00,0xBA,0xAD,0x00,0x00,
    0x44,0x53,0x00,0x01,0x1A,0x7D,0xDA,0x54,
    0x98,0xBD,0x92,0x00,0x01,0x06,0x18,0x42,
    0x10,0x47,0x10,0x92,0x46,0x62,0x02,0x89,
    0x80,0x90,0x18,0x18,0x14,0x81,0x85,0x00,
    0x49,0x02,0x88,0xC4,0x41,0xE1,0x20,0xD4,
    0x9F,0x40,0x7E,0x05,0x20,0x74,0x28,0x40,
    0xA6,0x00,0x83,0x02,0x9C,0x22,0x88,0xA0,
    0x57,0x01,0x36,0x05,0x98,0x14,0x60,0x51,
    0x80,0x76,0x01,0x96,0x05,0xE8,0x16,0x20,
    0x1D,0x96,0x88,0x04,0x47,0x89,0x01,0x47,
    0xE9,0xC4,0x16,0x6E,0xD8,0xE0,0x85,0xA2,
    0x68,0x06,0x51,0x12,0x94,0x8B,0x20,0x5D,
    0x10,0x52,0x2E,0xC0,0x37,0x82,0x06,0x10,

```



0xA5,0x77,0x01,0xB6,0x05,0x98,0x86,0x27,  
0xD2,0x20,0xE4,0x60,0x08,0x54,0xCE,0x80,  
0x20,0x69,0x44,0x21,0x1E,0xA7,0x44,0x08,  
0x0A,0x84,0x90,0xD4,0xF1,0xA0,0xA0,0x71,  
0x88,0xAD,0xCE,0x46,0x93,0xA9,0x74,0x7E,  
0x48,0x82,0x70,0xC6,0x2A,0x7E,0x3A,0x9A,  
0xD0,0xD9,0x9C,0x60,0xE7,0x18,0x72,0x3C,  
0x48,0xF4,0x20,0xB8,0x00,0x0F,0x1C,0x2C,  
0x34,0x84,0x22,0x6B,0x80,0xC1,0x8C,0xDD,  
0x63,0xB1,0x0B,0x4E,0x0A,0xEC,0x61,0xB3,  
0x01,0x19,0xA2,0x24,0x38,0xD4,0x11,0xC0,  
0x12,0x05,0x98,0x1F,0x87,0x0C,0x0F,0x95,  
0x8C,0x25,0x24,0x1B,0xAB,0x87,0xC2,0xA5,  
0x40,0x68,0x6C,0x27,0xED,0x19,0x45,0x2C,  
0x79,0x4A,0x82,0x49,0xE0,0x51,0x44,0x36,  
0x1A,0x27,0x28,0x1B,0x1A,0x25,0x03,0x42,  
0x9E,0x05,0x58,0x07,0x26,0x04,0x76,0x2F,  
0xC0,0x9A,0x00,0x73,0xB3,0x90,0xB1,0xB9,  
0xE8,0xFF,0x0F,0x71,0xB0,0x31,0xDA,0x9A,  
0xAE,0x90,0xC2,0xC4,0x88,0x12,0x2C,0x5E,  
0xC5,0xC3,0x10,0xCA,0x93,0x42,0xA8,0x48,  
0x95,0xA1,0x68,0xB4,0x51,0x2A,0x14,0xE0,  
0x4C,0x80,0x30,0x5C,0x1D,0x03,0x82,0x46,  
0x88,0x15,0x29,0x56,0xFB,0x83,0x20,0xF1,  
0x2D,0x40,0x54,0x01,0xA2,0x48,0xA3,0x41,  
0x9D,0x03,0x3C,0x5C,0x0F,0xF5,0xF0,0x3D,  
0xF6,0x93,0x0C,0x72,0x90,0x67,0xF1,0xA8,  
0x70,0x9C,0x06,0x49,0xE0,0x0B,0x80,0x4F,  
0x08,0x1E,0x38,0xDE,0x35,0xA0,0x66,0x7C,  
0xBC,0x4C,0x10,0x1C,0x6A,0x88,0x1E,0x68,  
0xB8,0x13,0x38,0x44,0x06,0xE8,0x49,0x3D,  
0x52,0x60,0x07,0x77,0x32,0xEF,0x01,0xAF,  
0x0A,0xCD,0x5E,0x12,0x08,0xC1,0xF1,0xF8,  
0x7E,0xC0,0x26,0x9C,0xC0,0xF2,0x07,0x81,  
0x1A,0x99,0xA1,0x3D,0xCA,0xD3,0x8A,0x19,  
0xF2,0x31,0xC1,0x04,0x16,0x0B,0x21,0x05,  
0x10,0x1A,0x0F,0xF8,0x6F,0x00,0x8F,0x17,  
0xBE,0x12,0xC4,0xF6,0x80,0x12,0x0C,0x0B,  
0x21,0x23,0xAB,0xF0,0x78,0xE8,0x28,0x7C,  
0x95,0x38,0x9C,0xD3,0x8A,0x67,0x82,0xE1,  
0x20,0xF4,0x05,0x90,0x00,0x51,0xE7,0x0C,  
0xD4,0x61,0xC1,0xE7,0x04,0x76,0x33,0x38,  
0x83,0x47,0x00,0x8F,0xE4,0x84,0xFC,0x2B,  
0xF1,0xC0,0xE0,0x03,0xE2,0xEF,0x1F,0xA7,  
0xEC,0x11,0x9C,0xA9,0x01,0x7D,0x1C,0xF0,  
0xFF,0x7F,0x28,0x7C,0x88,0x1E,0xDF,0x29,  
0x1F,0xAF,0x4F,0x17,0x96,0x35,0x4E,0xE8,  
0x77,0x08,0x9F,0x38,0x7C,0x64,0x71,0x44,



0x08,0x39,0x39,0x05,0xA0,0x81,0x4F,0xF7,  
0xEC,0x22,0x9C,0xAE,0x27,0xE5,0x40,0xC3,  
0xA0,0xE3,0x04,0xC7,0x79,0x00,0x1C,0xE3,  
0x84,0x7F,0x2E,0x80,0x3F,0x40,0x7E,0xCA,  
0x78,0xC5,0x48,0xE0,0x98,0x23,0x44,0x9F,  
0x6B,0x3C,0x42,0x2C,0xFC,0x53,0x45,0xE1,  
0x03,0x21,0x63,0x04,0x17,0xA0,0xC7,0x08,  
0x7C,0x03,0x8E,0x11,0x7D,0x94,0xE0,0xEA,  
0x0F,0x1A,0x74,0x80,0xB8,0xFF,0xFF,0x00,  
0xE1,0x83,0x7A,0x80,0xC0,0x37,0xFA,0xD1,  
0x03,0x3D,0x2E,0x8B,0x3E,0x0F,0xC8,0xF8,  
0x89,0x46,0xF3,0xE2,0xA7,0x03,0x7E,0xF8,  
0x00,0x0F,0xA8,0x87,0x84,0x03,0xC5,0x4C,  
0x9B,0x83,0x3E,0xBB,0x1C,0x3A,0x76,0xB8,  
0xE0,0x3F,0x81,0x80,0x4B,0xDE,0x21,0x0C,  
0x14,0x23,0xC6,0x9F,0x83,0x7C,0x0A,0x03,  
0xFF,0xFF,0xFF,0x14,0x06,0xFE,0xE1,0xF0,  
0x20,0x4F,0x07,0x9F,0xB6,0xA8,0x74,0x18,  
0xD4,0x81,0x0B,0xB0,0x32,0x89,0x08,0xCF,  
0x12,0xB5,0x41,0xE8,0xD4,0xF0,0x36,0xF1,  
0xB6,0xE5,0x5B,0x40,0x9C,0xD3,0xEC,0xED,  
0xC0,0x45,0x30,0x22,0xD4,0x0C,0x45,0x4E,  
0x5A,0x11,0x63,0x44,0x79,0xDC,0x32,0xCA,  
0xDB,0xD6,0x0B,0x40,0xBC,0x13,0x7B,0xDE,  
0x32,0x46,0xF0,0xC8,0x0F,0x5C,0x2C,0xC6,  
0xEA,0xF5,0x5F,0xF3,0x81,0x0B,0x70,0xF6,  
0xFF,0x3F,0x70,0x01,0x1C,0x0A,0x7A,0x18,  
0x42,0x0F,0xC3,0x53,0x39,0x97,0x87,0xC8,  
0x53,0x89,0x18,0x35,0x4C,0xD4,0x67,0x28,  
0xDF,0x2D,0x7C,0x20,0x02,0xDF,0x99,0x0B,  
0xF8,0xFD,0xFF,0x0F,0x44,0x70,0x8E,0x29,  
0xB8,0x33,0x0D,0x78,0x7C,0xCE,0x40,0x20,  
0xA7,0xE2,0x43,0x0D,0x60,0x41,0xF4,0x13,

0xC2,0x27,0x1A,0x2A,0x13,0x06,0x75,0xA8,  
0x01,0xAC,0x5C,0x61,0x9E,0x46,0xCF,0xF9,  
0x59,0xC6,0xA7,0x1A,0x1F,0x4A,0x8D,0x63,  
0x88,0x97,0x99,0x87,0x1A,0x1F,0x0B,0x5E,  
0x49,0x7D,0xA8,0x31,0x54,0x9C,0x87,0x1A,  
0x0F,0x37,0x50,0xD4,0x37,0x9B,0x67,0x1B,  
0xA3,0xC7,0xF7,0x0D,0xD5,0x10,0x0F,0x35,  
0x4C,0xF2,0x4A,0x35,0x16,0x1F,0x6A,0xC0,  
0xF1,0xFF,0x3F,0xD4,0x00,0xFC,0xFF,0xFF,  
0x1F,0x6A,0x00,0x47,0x47,0x03,0x38,0x47,  
0x46,0xDC,0xD1,0x00,0x5C,0x87,0x52,0xE0,  
0x70,0x34,0x00,0x1E,0x47,0x21,0x30,0x5F,  
0x68,0x7C,0x14,0x02,0x16,0xFF,0xFF,0xA3,  
0x10,0xF8,0x65,0x9F,0x83,0x50,0x42,0x8F,



0x42,0x80,0xA0,0xDB,0xCF,0x53,0xC4,0xB3,  
0x8F,0x2F,0x3F,0x0F,0x04,0x11,0x5E,0xF3,  
0x7D,0x0A,0xF2,0x21,0xDF,0x47,0x21,0x06,  
0x63,0x28,0x5F,0x83,0x7C,0x14,0x62,0x50,  
0xAF,0x41,0xBE,0xEF,0x1B,0xE4,0xF1,0x22,  
0x48,0xEC,0x67,0x02,0x1F,0x85,0x98,0xE8,  
0xA3,0x10,0xA0,0xF0,0xFF,0x7F,0x14,0x02,  
0xF8,0xFF,0xFF,0x3F,0x0A,0x01,0xCE,0x02,  
0x1C,0x0D,0x40,0x37,0xAD,0x47,0x21,0xF0,  
0xDE,0x59,0x4E,0xFB,0x04,0x7C,0x16,0x02,  
0xCC,0xFE,0xFF,0xCF,0x42,0xC0,0xEC,0x28,  
0x74,0x14,0x67,0xF9,0x2A,0xF4,0x04,0xF0,  
0x02,0x10,0x23,0xCC,0x3B,0xD0,0x4B,0x26,  
0xBB,0x8B,0x1B,0xE7,0xC9,0xE5,0x2C,0x9E,  
0xC4,0x7D,0x09,0xF2,0x81,0xE2,0x59,0xC8,  
0x50,0xA7,0x1B,0xF4,0x8D,0xDC,0x03,0x8B,  
0x19,0x3F,0xC4,0xF3,0x90,0x21,0x9E,0x85,  
0x00,0x76,0xFD,0xFF,0xCF,0x42,0x00,0xFF,  
0xFF,0xFF,0x47,0x03,0xF8,0x2F,0x00,0x9F,  
0x85,0x80,0xE7,0x09,0xE0,0x41,0xDB,0x67,  
0x21,0x80,0x33,0x87,0xCB,0xF3,0x7F,0x05,  
0x3A,0x96,0xF7,0x08,0xCF,0xFA,0x24,0x5F,  
0x2F,0x3D,0xD3,0x87,0x82,0x67,0x21,0x86,  
0x75,0x18,0x3E,0x0B,0x31,0x88,0x17,0x4D,  
0x43,0xBC,0x70,0xFA,0x30,0xE0,0xFF,0x3F,  
0x5E,0xE0,0x57,0x4E,0x03,0x05,0x09,0xF4,  
0x2C,0x04,0x30,0xFE,0xFF,0x7F,0x16,0x02,  
0xC8,0xB8,0x46,0x9D,0x85,0x80,0xE5,0x6D,  
0xE5,0x19,0xDB,0xA7,0x95,0x04,0xFF,0xFF,  
0x67,0x21,0xC0,0x41,0x2E,0x23,0x07,0x21,  
0x4C,0xC4,0x87,0x83,0x8F,0x99,0x80,0x9E,  
0x29,0xBE,0xB8,0x1B,0xE3,0x09,0xE0,0x45,  
0xE2,0x31,0x93,0x1D,0x35,0x0D,0xF3,0x2C,  
0x64,0xBC,0xB3,0x78,0x0D,0x78,0x82,0xF7,  
0xE4,0x9F,0x85,0x18,0xD8,0x61,0x05,0x7B,  
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0xE8,0x59,0x88,0xC5,0x7D,0xAE,0xE8,0x3C,  
0xE1,0xB3,0x10,0xF0,0xFE,0xFF,0x9F,0x25,  
0xE0,0x5E,0x0D,0x9E,0x85,0x00,0x13,0x87,  
0x0D,0x9F,0x35,0xC0,0x33,0x7C,0x8F,0xEA,  
0x1C,0x1E,0x8F,0x81,0x7F,0x56,0x1D,0xE7,  
0x04,0x96,0x7B,0xD1,0xB2,0x71,0xA0,0xA1,  
0x23,0xB2,0x3A,0x20,0x8D,0x0D,0x73,0x29,  
0x89,0x7C,0x72,0x6C,0xD4,0x56,0x04,0xA7,  
0x33,0x93,0x4F,0x00,0xD6,0x42,0x21,0x05,  
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0x5F,0x74,0xD8,0x88,0x31,0x21,0xAE,0x1E,  
0xD0,0x26,0x18,0xD4,0x97,0x22,0x58,0x43,  
0xE6,0x63,0xF1,0x05,0x02,0x37,0x65,0x30,  
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0x19,0x8C,0xF0,0x98,0xBB,0x18,0xBF,0x3A,  
0x79,0x74,0xFC,0xA0,0xE0,0x1B,0x0E,0xC3,  
0x7E,0x32,0xF3,0x8C,0xDE,0xCB,0x7C,0x8D,  
0xC3,0xC0,0x7A,0xBC,0x1C,0xD6,0x68,0x61,  
0x0F,0xED,0x3D,0xC4,0xFF,0xFF,0x43,0x8C,  
0xCF,0x13,0xC6,0x08,0xEB,0xDB,0x0B,0x38,  
0xEE,0x59,0xF0,0xEF,0x1A,0xE0,0xB9,0x84,  
0xF8,0xAE,0x01,0x30,0xF0,0xFF,0x7F,0xD7,  
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0xD0,0x7D,0xD7,0x00,0xAE,0xD9,0xEF,0x1A,  
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0xD9,0xDE,0xD7,0x9E,0xB0,0xAC,0xE9,0xB2,  
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0x9F,0x30,0x05,0xF1,0x84,0x1D,0xEC,0xB2,  
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0xAB,0xBC,0x6D,0x40,0x3C,0xC9,0x33,0x02,  
0xAB,0xBA,0x6E,0xA0,0xF4,0x5C,0x37,0x00,  
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0x88,0x27,0xEC,0x68,0xD7,0x0D,0x50,0x04,  
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0xC7,0xE7,0xBB,0x39,0x38,0x06,0x79,0x8C,  
0x87,0x76,0xC0,0xAF,0xEF,0x9E,0x98,0xEF,



0xE6,0xC0,0xFF,0x4C,0x70,0x3C,0x18,0x68,  
0x1C,0x62,0xAB,0x97,0x06,0x72,0x34,0x38,  
0x3F,0xDC,0x19,0x81,0x61,0x15,0x7F,0xF2,  
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0x83,0xE0,0xC1,0x56,0x6D,0x02,0x85,0x86,  
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0x02,0xF8,0x3E,0xD1,0xFC,0x38,0x74,0x37,  
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0xC8,0x73,0x7B,0x54,0x38,0x4E,0x5F,0x25,  
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0x9F,0xE7,0x0B,0x8B,0x21,0x1F,0x13,0x4C,  
0x60,0xB1,0x27,0x1B,0x3A,0x1E,0xF0,0xDF,  
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0xC0,0x5C,0x6F,0xD8,0xB9,0x85,0x8B,0x3A,  
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0xB3,0x38,0xC4,0x08,0xB1,0xD9,0x81,0xEB,  
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0xD9,0x20,0xE1,0x63,0x84,0x8D,0xF6,0x04,  
0xC3,0xC7,0xC2,0xCF,0x2B,0x1E,0x3C,0x3F,



0xAD,0xF9,0x2E,0xE8,0xC9,0x9C,0xE3,0x43,  
0x96,0xA7,0xF6,0x38,0xE9,0xC3,0x2C,0x6E,  
0x50,0x0F,0x8E,0xEC,0xAE,0xE3,0xE3,0x35,  
0xF6,0x14,0xE4,0x21,0xF0,0x13,0x81,0x2F,  
0x88,0x9E,0xAC,0xEF,0x7A,0xEC,0x5E,0x66,  
0x8C,0xEA,0xA7,0x80,0x3A,0xA6,0x9C,0xC1,  
0x2B,0x04,0xBB,0xE7,0xF9,0x90,0xED,0xBB,  
0x24,0x1B,0x05,0xEE,0x90,0xE0,0x33,0x12,  
0x3F,0x55,0x78,0x18,0x1E,0x05,0x8C,0x19,  
0xBC,0x23,0x1C,0x5A,0x88,0x03,0x7E,0xDF,  
0x65,0x43,0x8D,0x71,0x7A,0x3E,0x7F,0xB0,  
0x41,0xC0,0x87,0x3A,0x54,0x0F,0xF3,0xA8,  
0x5E,0x0A,0x19,0xCE,0xD9,0xC1,0x1D,0x04,  
0xF6,0xF8,0xE1,0x41,0xF0,0x9B,0x25,0x1F,  
0x04,0x3B,0xDF,0xBC,0xC1,0x19,0xE4,0xFF,  
0x7F,0x0C,0xB0,0xCF,0x54,0x3E,0x9A,0x20,  
0x8E,0x80,0xE8,0xF3,0x87,0xC7,0xF0,0x26,  
0xC7,0x87,0x83,0x3D,0x7A,0xE0,0x4E,0x22,  
0x70,0x8F,0x5D,0x07,0xED,0x6B,0x9C,0x2F,  
0x5A,0x30,0xEE,0x7B,0xCF,0x22,0xE0,0xC7,  
0x78,0x6C,0x01,0xC7,0xA1,0x04,0xDC,0xC1,  
0x8E,0x6B,0x1C,0x42,0x51,0x60,0x74,0x28,  
0xC1,0xC5,0x00,0x12,0x8C,0x63,0x9C,0xD1,  
0xD0,0x97,0x48,0x1F,0xD2,0xE0,0x0C,0x1A,  
0xF6,0x3C,0x9F,0x50,0xB8,0x3D,0x01,0x8A,  
0x4E,0x28,0x20,0xC3,0x7D,0x06,0xC1,0x9E,  
0x10,0xF8,0x19,0x84,0xFD,0xFF,0x0F,0x8E,  
0x1E,0xF7,0x7B,0xA3,0x4F,0x8D,0x6C,0xEE,  
0x0F,0x01,0x27,0x70,0xEE,0xEC,0xD4,0x8C,  
0x3B,0x33,0x60,0xCF,0x1F,0x1E,0x02,0x3F,  
0x17,0x78,0xF8,0x1E,0x02,0x7E,0xF0,0x0F,  
0xCC,0x06,0x07,0xE3,0x29,0xC2,0xD7,0x0E,  
0x0E,0xCE,0x4F,0x03,0x06,0xE7,0xAF,0x50,  
0x9F,0xE7,0x19,0x38,0xF6,0xD4,0xEB,0x7B,  
0x87,0xE7,0xEB,0x43,0x05,0xFE,0xA6,0xE7,  
0x43,0x05,0x38,0x0E,0x0F,0xFC,0xB0,0xC2,  
0x86,0xF0,0x28,0x80,0x3F,0xB5,0xF8,0xF8,  
0x17,0xE7,0x29,0x82,0xDD,0x46,0xB0,0x87,  
0x0B,0xC0,0x51,0xB4,0xB3,0x18,0x2A,0xCC,  
0x59,0x8C,0xFC,0xFF,0xCF,0x51,0xA8,0xB3,  
0x18,0x3D,0x5C,0x00,0x2E,0x04,0x1F,0x0F,  
0x40,0x73,0x10,0x78,0x5C,0xF0,0x85,0xE0,  
0x48,0x0E,0xE4,0xE9,0x00,0xF0,0x19,0x4A,  
0xC3,0xA1,0x09,0x13,0x03,0x06,0x75,0x3E,  
0xF0,0x09,0xC5,0xC7,0x0E,0x7E,0x36,0xF0,  
0x8D,0xDC,0x43,0xE5,0xA7,0x66,0x5F,0xF2,  
0x11,0xE0,0x02,0x75,0xA0,0x61,0xA0,0x46,  
0xE4,0x23,0xD2,0xFF,0xFF,0xB9,0x0D,0x1B,



0x60,0x68,0xF4,0x1C,0x0E,0xE3,0x80,0xEB,  
0x73,0x38,0x76,0x40,0x3E,0x87,0xC3,0x3F,  
0x47,0xC3,0x1F,0x1B,0x3B,0xDD,0xF3,0x81,  
0xC1,0xBA,0x7E,0x63,0x06,0x06,0xB6,0x6F,  
0x91,0x07,0x06,0x1C,0x51,0xCF,0xC6,0x57,  
0x08,0x0F,0x0C,0x6C,0x80,0x1E,0x18,0xF0,  
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0x8C,0x1C,0xF3,0x89,0xC3,0xC3,0xF0,0xA1,  
0x22,0xEA,0x33,0xC0,0x23,0x1E,0x1B,0x1B,  
0xFB,0xFF,0x8F,0x0D,0x2C,0xC7,0x16,0x8F,  
0x0D,0xFC,0x47,0x78,0xFC,0xD8,0xE0,0x8C,  
0xE5,0xD1,0xC4,0x97,0x99,0x23,0x3B,0x8D,  
0x33,0x7B,0x0D,0xF1,0xD1,0xEE,0xF1,0xDB,  
0x63,0x03,0x97,0x85,0xB1,0x01,0xA5,0x90,  
0x63,0x43,0x1F,0x52,0x7C,0x0A,0xB0,0x71,  
0x54,0x32,0x0F,0x1F,0xAF,0x7C,0x62,0x38,  
0xBA,0x20,0x6F,0xE8,0xBE,0x5C,0xF8,0x48,  
0x63,0x30,0x5F,0x5A,0x7C,0x06,0xE5,0x43,  
0x04,0xD7,0x57,0xC5,0x43,0x04,0x3E,0xA1,  
0x86,0x88,0x1E,0xCF,0xFF,0xFF,0x11,0xCC,  
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0xA5,0x98,0xC0,0x5E,0x85,0x87,0x46,0x4F,  
0x3F,0x3E,0x04,0x30,0x08,0xDF,0x06,0xD8,  
0x55,0xC0,0x57,0x21,0x83,0x24,0x18,0xE7,  
0x64,0x41,0x07,0x07,0x8E,0x21,0x79,0x70,  
0xF0,0x07,0xE3,0x21,0x70,0x60,0xCF,0xE0,  
0xB9,0xE8,0x31,0xD8,0xA7,0x1D,0x9F,0x4A,  
0xC0,0x77,0xE6,0x04,0xC7,0xE9,0x1D,0x7B,  
0x29,0xF0,0x08,0x1E,0xAD,0x3C,0x02,0x7E,  
0xB4,0x02,0x66,0xFF,0xFF,0xA3,0x15,0x30,  
0x09,0x7A,0xE6,0xA4,0x03,0x77,0x34,0x18,  
0xD4,0xD1,0x0A,0x5C,0x11,0xC0,0x75,0xDC,  
0xF0,0xD1,0x02,0xCE,0x50,0x0F,0xDA,0x07,  
0x65,0xCF,0xDA,0x97,0x21,0x76,0xB4,0x00,  
0x97,0x89,0x43,0x08,0xD0,0x04,0x3E,0x89,  
0x67,0xEF,0x43,0x03,0xB3,0x8A,0xA1,0x01,  
0xA5,0xA3,0x01,0xEE,0x44,0x81,0xFD,0xFF,  
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0xC0,0xCD,0xE9,0xDB,0xE3,0xE2,0xD0,0x38,  
0xC4,0xE7,0xA7,0x73,0xF6,0xD1,0xE8,0x4C,  
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0x16,0x0F,0xC5,0x07,0x03,0x0E,0xEC,0x23,  
0x02,0x3B,0x17,0xB0,0x73,0xAD,0xE1,0xF8,  
0x59,0xC0,0xA7,0x84,0xB7,0xA6,0x17,0x7B,  
0x9F,0xD7,0x7D,0xD6,0x08,0xC9,0xCE,0xF4,  
0x3E,0x89,0xE2,0x0E,0xA2,0x70,0x4E,0x9F,



0xE0,0x22,0xF0,0x65,0xDF,0xA3,0xE0,0xA7,  
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0x7E,0xF8,0x9A,0xF1,0x33,0xC3,0xE3,0x43,  
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0x20,0xCA,0x29,0x44,0x88,0x12,0xA4,0xB1,  
0xC9,0x0B,0x35,0xCA,0xD9,0x45,0x6E,0x6D,  
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0xEF,0x10,0xB1,0xDA,0x1F,0x04,0x91,0xF4,  
0x32,0xD0,0x71,0xC9,0x91,0x0E,0x7D,0xE8,  
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0x2A,0x3E,0x28,0xF8,0x00,0x80,0x77,0x09,  
0xA8,0x5B,0x9D,0xC7,0xED,0xF3,0x06,0xF8,  
0xAF,0x17,0x58,0x82,0xF2,0x07,0x81,0x1A,  
0x99,0xA1,0x3D,0xCC,0xB7,0x19,0x43,0xBE,  
0x07,0x1C,0x16,0x3B,0x27,0xF9,0xF0,0x08,  
0x1C,0x8E,0x01,0x4F,0x1B,0xBE,0x51,0x7B,  
0xBE,0x3E,0x62,0x01,0x8E,0xFE,0xFF,0x47,  
0x2C,0x30,0x9D,0xDF,0x7D,0x82,0x01,0xC7,  
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0x30,0x60,0x1F,0x2A,0x6E,0x08,0x5C,0xEE,  
0x8A,0x28,0x90,0x05,0xC2,0xA0,0x0E,0xFD,  
0xE4,0x08,0x42,0xCF,0x9C,0x70,0x86,0x72,  
0xB2,0xBD,0x5F,0x1D,0xC8,0x2D,0xC2,0x43,  
0x3D,0x8B,0xC7,0x04,0x76,0xDA,0x02,0x36,  
0xFF,0xFF,0xE3,0x29,0xB0,0x98,0xF7,0xD3,  
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0x1D,0xCC,0xE0,0xDC,0x7F,0xD8,0x2D,0x1A,  
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0xE1,0x89,0x1F,0x43,0xC0,0xFA,0xFF,0x3F,  
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0x4B,0x83,0xE7,0x74,0xD2,0xCF,0x62,0x3E,  
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0xC4,0x00,0xCE,0xC7,0x0A,0x63,0x0C,0x3C,  
0xDA,0xC1,0x0C,0x15,0xE6,0x6C,0x86,0x0E,  
0x72,0x08,0xA1,0xC1,0x0E,0x21,0x50,0xE6,  
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0xD8,0x0F,0x67,0xC0,0xE1,0xD4,0x80,0x0F,  
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0xFD,0xC0,0xC8,0xFF,0xFF,0x64,0x06,0x18,  
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0x1B,0xC4,0x21,0xBE,0x8D,0xF8,0xE8,0xFE,  
0x6A,0xE2,0x4B,0x00,0xE6,0x42,0xE2,0xD3,  
0x09,0xB3,0x70,0x38,0x03,0x5A,0x43,0x60,  
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0x7A,0xDC,0xE9,0x04,0xDE,0x38,0x7C,0x3A,  
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0x09,0xEE,0xC4,0x07,0xB6,0x63,0x10,0x60,  
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0xFA,0xCC,0x07,0x9C,0x8E,0x1C,0xE0,0x38,  
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0x9E,0xC4,0xA9,0xFA,0x5A,0x70,0x14,0x4F,  
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0x07,0x10,0x5F,0x1F,0xD8,0x71,0xD2,0x67,  
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0x5C,0x83,0xF3,0x09,0x07,0xBC,0x87,0x23,



0x1F,0x4B,0xC0,0x77,0xD0,0x84,0x73,0x81,  
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0xD8,0x67,0x43,0x80,0xE1,0xFF,0xFF,0x23,  
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0x4E,0x17,0x0E,0x70,0x8E,0x92,0x8D,0x63,  
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0x37,0xE0,0x57,0x61,0x8F,0xC5,0xFF,0x7F,  
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0x45,0x0D,0xC0,0x68,0x98,0x53,0xC0,0x53,  
0x09,0xB8,0x82,0xCD,0x0D,0x7D,0x61,0xB1,  
0xD6,0xA9,0xE8,0x14,0xF4,0x3E,0x70,0x70,  
0xC0,0x63,0xF6,0x1E,0x1C,0x2C,0x34,0x0F,  
0x0E,0x6C,0xD9,0x06,0x87,0x56,0x72,0x17,  
0x21,0x87,0x0F,0xFC,0xEC,0x80,0x03,0xA0,  
0x67,0x07,0x0B,0xC9,0xB3,0x03,0x9B,0xBE,  
0xB3,0x08,0x28,0x70,0xFE,0xFF,0x11,0xDE,  
0x3B,0x7C,0x6E,0x79,0xF6,0x60,0x63,0x78,  
0x74,0x31,0x9A,0xD1,0xB9,0xA6,0xDB,0x04,  
0x4A,0xC5,0x6D,0x82,0x82,0xF8,0x06,0xE0,  
0x84,0x34,0xBA,0x75,0xE2,0x66,0x62,0xFC,  
0x47,0x0C,0x1F,0x11,0x0E,0xE9,0x6C,0x4D,  
0x30,0x0F,0xA4,0x9E,0x81,0xBE,0xB3,0xE1,  
0x67,0x1F,0xF2,0xC1,0xC5,0xD3,0xF0,0xF5,  
0x86,0xDC,0x3B,0xE8,0xB4,0x7D,0x66,0xC0,  
0x1C,0x74,0x7D,0x9D,0x7A,0x83,0x27,0x57,  
0x09,0xEA,0xE1,0x02,0x42,0x2F,0x34,0xBE,  
0xDC,0x25,0x78,0xE0,0xF4,0xE9,0xEE,0xBD,  
0x84,0x9D,0xF1,0x12,0xBC,0xE0,0x25,0x98,



0x77,0x10,0xA8,0x51,0x79,0x10,0x98,0xAB,  
0x3C,0xCB,0x37,0x06,0x54,0xB2,0x8B,0x16,  
0x3D,0xC3,0xBC,0xC3,0xF8,0x92,0xE0,0xEB,  
0x87,0xCF,0x2D,0x5E,0xC0,0xEB,0x16,0x0C,  
0x82,0x67,0xA0,0x57,0x17,0xDF,0xD9,0x0D,  
0xFC,0x2A,0xF0,0x46,0x13,0x22,0x98,0x61,  
0x0F,0xFF,0xDD,0xDD,0xA8,0xBE,0xE9,0x18,  
0xEB,0x75,0xC4,0x23,0xE5,0xC7,0x96,0x03,  
0x8A,0xF4,0xF2,0xE6,0x09,0xF8,0x2C,0xE3,  
0x53,0xDD,0x49,0xF9,0x7A,0x68,0xF4,0x57,  
0x08,0x1F,0x7E,0x8C,0xEC,0x73,0x0E,0x3B,  
0xDF,0xB1,0x41,0x71,0xC4,0x07,0x86,0x97,  
0x1A,0x4F,0x85,0x9D,0xBB,0x60,0x1C,0x1C,  
0xD8,0xB1,0x08,0x73,0x7C,0x05,0xD7,0xC9,  
0xE6,0xFF,0xFF,0xE4,0x00,0x6E,0x78,0xCC,  
0xC1,0xD7,0xE7,0x0D,0xDF,0x0C,0x3C,0x2E,  
0x7E,0xE4,0xF0,0x49,0xE3,0xA5,0xD3,0xD8,  
0xA7,0xE9,0xA3,0xD1,0xCB,0x9B,0x4F,0x2F,  
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0x3E,0x06,0x9C,0xB9,0x2F,0x44,0xB8,0xC3,  
0x23,0x58,0x00,0xF1,0xB7,0x92,0x47,0x0E,  
0x4F,0xC0,0x80,0x4C,0xD3,0xBA,0x74,0x20,  
0xE2,0xA7,0x3C,0x2B,0x5F,0x99,0x2E,0x43,  
0x0C,0xE3,0xA9,0xF2,0xF1,0xC3,0xB3,0xF1,  
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0xBD,0x32,0x10,0x50,0x9D,0x88,0xB8,0x42,  
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0x22,0x05,0x31,0xA0,0x6F,0x2E,0xC0,0xF4,  
0x4C,0x04,0x5C,0xFE,0xFF,0x37,0x17,0x80,  
0xFF,0xFF,0xFF,0x9B,0x0B,0xE0,0xE6,0xFE,  
0xE0,0x9B,0x0B,0x70,0x8D,0xB4,0x2A,0x7A,  
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0x78,0x2B,0x78,0x67,0x87,0xF5,0xFF,0xBF,  
0xB3,0xC3,0xC3,0x8C,0x13,0xE5,0x85,0x21,  
0xC6,0x3B,0x3B,0x0B,0xF0,0x26,0xD0,0x51,  
0xC6,0x77,0x76,0x80,0x1F,0x67,0xD8,0x77,  
0x69,0xF0,0x5E,0x75,0x81,0xF5,0xFF,0xFF,  
0xAA,0x0B,0x3C,0x04,0xDF,0xA7,0x41,0x3E,  
0x5E,0x30,0x8C,0x83,0x2B,0x27,0xA1,0xC7,  
0x02,0x6B,0x85,0x41,0xDD,0xA9,0xC1,0xA5,  
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0xC5,0x9F,0x2F,0x70,0x01,0x86,0x4C,0x4F,  
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0x0E,0x1E,0x90,0x8F,0x18,0xC0,0x67,0x15,  
0x1E,0x18,0xEE,0xB4,0xE0,0x9B,0x92,0x41,  
0xCF,0x31,0xA8,0x8F,0x3C,0x27,0xEF,0x7B,  
0xC2,0xE3,0x84,0xA3,0x9E,0x83,0xE8,0xD8,  
0xC0,0x71,0xDC,0xC0,0xFD,0xFF,0xC7,0x06,



0xEF,0x70,0x83,0x3B,0xE8,0xF8,0x62,0x70,  
0x5C,0x18,0xB8,0xE7,0x02,0x0F,0xC3,0x37,  
0x1D,0x8F,0x08,0x33,0xFE,0xD7,0x3F,0x23,  
0x04,0xC4,0x5F,0x8C,0xD8,0x80,0xC1,0x78,  
0x6B,0xF3,0xF5,0x0D,0x37,0x60,0x5F,0x1D,  
0x7C,0xC1,0xF0,0x09,0xCC,0xE8,0x2F,0x30,  
0x4F,0x62,0x3E,0x36,0x90,0x0B,0x1C,0x1D,  
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0xB1,0xC7,0x8A,0xEE,0x72,0xE8,0x9B,0x9C,  
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0xAA,0x8F,0x56,0xEF,0x01,0x3E,0x7A,0xBC,  
0x77,0xF9,0xEC,0xC4,0x2E,0x02,0x3E,0x72,  
0x19,0xC7,0xD3,0xF4,0x15,0xD0,0x43,0x36,  
0xD8,0xAB,0x86,0x4F,0x60,0x3E,0xBA,0xE1,  
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0x3B,0x92,0x1C,0x75,0xA8,0x6B,0x7A,0x44,  
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0xCC,0xD1,0x00,0xD6,0x25,0x04,0x5C,0x77,  
0x0C,0x5F,0x42,0x80,0x4F,0xD0,0x4B,0x04,  
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0xEC,0x5E,0xE0,0x30,0xF7,0x08,0x50,0x81,  
0x7A,0x78,0xF0,0xD5,0xDE,0x23,0x40,0x71,  
0xB2,0xF4,0xA1,0xC1,0x03,0xB5,0xAA,0x33,  
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0x81,0xB9,0x5D,0xFA,0x26,0x01,0x37,0xCF,  
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0x7F,0x1A,0xF9,0xDD,0xE0,0x5D,0xC0,0xD3,  
0xF7,0xBD,0x88,0x9F,0x28,0xC0,0x17,0xEC,  
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0x8B,0x73,0x4D,0x02,0xD5,0x71,0x97,0x8F,  
0x0E,0xEE,0xB5,0x15,0xFB,0xFF,0x27,0x38,  
0xB8,0x77,0x96,0x77,0x3E,0x43,0x79,0x90,  
0xE0,0xBB,0xB6,0x82,0xE3,0xAA,0x06,0xE3,



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0x7A,0x25,0x36,0xC6,0x93,0x71,0x73,0xB7,  
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0x0B,0x32,0x13,0xF8,0x56,0xD0,0xC1,0xC5,  
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0x1B,0xC0,0xD9,0xD0,0x7D,0xB2,0x01,0xF7,  
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0xC8,0xF8,0x50,0xF4,0x7C,0x07,0xF8,0x0F,  
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0xFE,0xFF,0xE7,0x3B,0x60,0x79,0xB6,0x7E,  
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0xFF,0xFF,0xF9,0x0E,0xB0,0x73,0x46,0xC3,



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0xBD,0xBF,0x04,0x62,0x69,0xEF,0x09,0x81,  
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0xD3,0x02,0xC2,0x24,0x99,0x01,0x61,0x81,  
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0x4E,0x0C,0x42,0x15,0x7C,0x32,0x82,0x10,  
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0xED,0x91,0x80,0xBA,0x05,0x61,0xE9,0x41,  
0x68,0x3A,0xBB,0x83,0xA7,0x20,0x54,0x81,  
0x5E,0x30,0xA6,0x19,0x44,0x87,0x05,0x02,  
0x42,0x73,0x81,0x51,0x1D,0xAF,0x96,0x40,  
0x44,0x1B,0x08,0xD5,0x0A,0xA2,0x81,0x93,  
0x1F,0x53,0x10,0x92,0x14,0x84,0xFC,0xFF,  
0x07,0xAA,0xC7,0x9C,0x40,0xAC,0xFA,0x5B,  
0x25,0x50,0x27,0x01,0xA1,0xC9,0x40,0x74,  
0x7C,0x20,0x0F,0xB8,0x83,0x64,0x20,0x54,  
0x29,0x88,0xC0,0xAC,0xF4,0x63,0xA4,0x23,  
0x05,0x51,0x7D,0xBC,0xA0,0x20,0x34,0xD1,  
0x3B,0x2C,0x08,0x7B,0xB8,0x69,0xA8,0xE4,  
0x59,0xA5,0xA1,0x12,0x10,0x9A,0x0D,0x44,  
0xC7,0x04,0xF2,0xAA,0x79,0x4C,0x60,0x20,  
0x54,0x2F,0x08,0xCD,0x01,0x42,0x13,0x83,  
0x08,0xD4,0xA9,0xBF,0x37,0x1A,0x2A,0xF9,  
0x5B,0x09,0xC4,0xCA,0x5E,0x69,0x02,0xB1,  
0xDE,0xA7,0x4E,0x20,0xE6,0x1D,0x98,0xA9,  
0x05,0xA1,0xEA,0x41,0x04,0xE6,0xB4,0x40,  
0x54,0x81,0x78,0x10,0xA6,0x08,0x44,0x60,  
0x4E,0x02,0x44,0xD3,0x81,0xD0,0xEC,0x60,  
0x54,0xE7,0xA3,0x4D,0x40,0xD6,0x0E,0x42,  
0xB3,0x80,0x08,0xCC,0x59,0x1E,0x69,0x02,  
0xB1,0x92,0x2F,0x9D,0x0E,0x24,0x04,0x84,  
0x26,0xD3,0x7F,0x68,0xA1,0x05,0x80,0x99,  
0x84,0x04,0x20,0x4C,0x16,0x88,0x0E,0x27,  
0xD6,0x08,0x22,0x40,0xC7,0x01,0xA3,0xD1,  
0x40,0x68,0x5C,0x40,0x9A,0x1D,0x90,0x2A,  
0x6D,0x00,0xC6,0x54,0x83,0xD0,0x24,0x20,  
0x02,0x74,0x2C,0x10,0x01,0x5A,0x74,0x04,  
0x30,0x16,0x01,0x84,0x46,0x05,0xA1,0xC9,  
0x2A,0x80,0xB2,0x9C,0x20,0x1A,0x20,0xC9,  
0x30,0x60,0x0A,0x42,0x33,0x81,0xD0,0x8C,  
0x20,0x54,0x7C,0x07,0x10,0x16,0x04,0x84,  
0x86,0x03,0xD1,0x00,0xFE,0xFF,0x8F,0x0C,  
0x02,0xD1,0x00,0x9C,0x23,0xC4,0x61,0x85,  
0x82,0xD0,0xF4,0x20,0x34,0x6C,0x09,0x50,



```

0x16,0x1D,0x44,0xC7,0x23,0x92,0x02,0x8C,
0x05,0x02,0xA1,0x31,0x41,0x68,0x6C,0x10,
0x1A,0x29,0x06,0x28,0x13,0x54,0xE3,0x50,
0x44,0x7B,0x80,0x31,0x99,0x20,0x54,0x36,
0x88,0xC0,0x1C,0x14,0x88,0x86,0x07,0xA1,
0x62,0x82,0x00,0x52,0x10,0x01,0x12,0x20,
0x1A,0x1E,0x84,0x8A,0x29,0x32,0x74,0x0A,
0x42,0x55,0x24,0x39,0x9A,0x50,0x10,0x1D,
0x4D,0x08,0x08,0xCD,0x07,0x46,0x75,0x35,
0x39,0x6E,0x50,0x10,0xAA,0x1D,0x84,0x06,
0x05,0xA1,0x39,0xA2,0x80,0xB2,0xEC,0x20,
0x02,0xB2,0x9E,0x2A,0x87,0x0A,0x0A,0x22,
0x30,0xA7,0x02,0xA2,0x49,0x41,0xA8,0x8E,
0x2C,0x47,0x0A,0x9A,0x06,0x84,0x25,0x06,
0xA1,0xC9,0xDA,0x80,0xB0,0x0C,0x75,0x0E,
0x24,0x14,0x84,0xE6,0x04,0xA1,0x4A,0xF2,
0x0C,0x8F,0x82,0xE8,0x38,0x42,0x80,0x68,
0x7A,0x10,0xAA,0xA6,0xCF,0x00,0x28,0x88,
0x06,0x40,0x40,0x68,0x4E,0x30,0xAA,0xA8,
0xD1,0xD1,0x84,0x82,0x50,0xDD,0x2F,0x4E,
0x81,0xF8,0xFF,0x0F,
}) // END MBUF

} //end DefinitionBlock

```

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/tests/misc/grammar.asl

No license file was found, but licenses were detected in source scan.

```

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/*****
*
* Module Name: aslcompiler.l - Flex/lex input file
*
*****/

/*****
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*
*****/

#include "aslcompiler.h"
#include "aslcompiler.y.h"

```



```

#include "acconvert.h"

#include <stdlib.h>
#include <string.h>

/*
 * Generation: Use the following command line:
 *
 * flex.exe -PAslCompiler -i -o$(InputPath).c $(InputPath)
 *
 * -i: Scanner must be case-insensitive
 */

#define _COMPONENT      ACPI_COMPILER
        ACPI_MODULE_NAME    ("aslscanner")

/* Local prototypes */

static void
AslDoLineDirective (void);

static BOOLEAN
AslDoComment (void);

static BOOLEAN
AslDoCommentType2 (void);

static char
AslDoStringLiteral (void);

static void
count (int type);

/*! [Begin]
no source code translation */

% }

/* Definitions */

LeadNameChar      [A-Za-z_]
DigitChar          [0-9]
ErrorCode          [(| [ ]*[1-9][0-9][0-9][0-9][ ]*[D])
OctalChar          [0-7]
HexDigitChar       [A-Fa-f0-9]
RootChar           [\\]
Nothing            []

```



```

NameChar      [A-Za-z_0-9]
NameSeg1      {LeadNameChar}{NameChar}
NameSeg2      {LeadNameChar}{NameChar}{NameChar}
NameSeg3      {LeadNameChar}{NameChar}{NameChar}{NameChar}
NameSeg       {LeadNameChar}||{NameSeg1}||{NameSeg2}||{NameSeg3}

NameString     {RootChar}||{RootChar}{NamePath}||[^]+{NamePath}||{NonEmptyNamePath}
NamePath       {NonEmptyNamePath}?
NonEmptyNamePath {NameSeg}{NamePathTail}*
NamePathTail   [.]{NameSeg}

```

```
%%
```

```
/* Rules */
```

```

[ ]          { count (0); }
[n]          { count (0); } /* Handle files
with both LF and CR/LF */
[r]          { count (0); } /* termination on both Unix and Windows */
[ \t]        { count (0); }

```

```

"/*"         { if (!AslDoComment ()) {yyterminate ();} }
"//"         { if (!AslDoCommentType2 ()) {yyterminate ();} }

```

```

"\""         { if (AslDoStringLiteral ()) {return (PARSEOP_STRING_LITERAL);}
else {yyterminate ();} }
";"         { count (0); return(';'); }

```

```
/* ASL Extension: Standard C operators */
```

```

"~"         { count (3); return (PARSEOP_EXP_NOT); }
"!"         { count (3); return (PARSEOP_EXP_LOGICAL_NOT); }
"*"         { count (3); return (PARSEOP_EXP_MULTIPLY); }
"/"         { count (3); return (PARSEOP_EXP_DIVIDE); }
"%"         { count (3); return (PARSEOP_EXP_MODULO); }
"+"         { count (3); return (PARSEOP_EXP_ADD); }
"_"         { count (3); return (PARSEOP_EXP_SUBTRACT); }
">>"        { count (3); return (PARSEOP_EXP_SHIFT_RIGHT); }
"<<"        { count (3); return (PARSEOP_EXP_SHIFT_LEFT); }
"<"         { count (3); return (PARSEOP_EXP_LESS); }
">"         { count (3); return (PARSEOP_EXP_GREATER); }
"&"         { count (3); return (PARSEOP_EXP_AND); }
"<="        { count (3); return (PARSEOP_EXP_LESS_EQUAL); }
">="        { count (3); return (PARSEOP_EXP_GREATER_EQUAL); }
"=="        { count (3); return (PARSEOP_EXP_EQUAL); }
"!="        { count (3); return (PARSEOP_EXP_NOT_EQUAL); }

```



```

"|"          { count (3); return (PARSEOP_EXP_OR); }
"&&"        { count (3); return (PARSEOP_EXP_LOGICAL_AND); }
"||"        { count (3); return (PARSEOP_EXP_LOGICAL_OR); }
"++"        { count (3); return
(PARSEOP_EXP_INCREMENT); }
"--"        { count (3); return (PARSEOP_EXP_DECREMENT); }
"^"         { count (3); return (PARSEOP_EXP_XOR); }

/* ASL Extension: Standard C assignment operators */

"="         { count (3); return (PARSEOP_EXP_EQUALS); }
"+="        { count (3); return (PARSEOP_EXP_ADD_EQ); }
"-="        { count (3); return (PARSEOP_EXP_SUB_EQ); }
"*="        { count (3); return (PARSEOP_EXP_MUL_EQ); }
"/="        { count (3); return (PARSEOP_EXP_DIV_EQ); }
"%="        { count (3); return (PARSEOP_EXP_MOD_EQ); }
"<<="       { count (3); return (PARSEOP_EXP_SHL_EQ); }
">>="       { count (3); return (PARSEOP_EXP_SHR_EQ); }
"&="        { count (3); return (PARSEOP_EXP_AND_EQ); }
"^="        { count (3); return (PARSEOP_EXP_XOR_EQ); }
"|="        { count (3); return
(PARSEOP_EXP_OR_EQ); }

"["         { count (3); return (PARSEOP_EXP_INDEX_LEFT); }
"]"         { count (0); return (PARSEOP_EXP_INDEX_RIGHT); }
"("         { count (0); return (PARSEOP_OPEN_PAREN); }
")"         { count (0); return (PARSEOP_CLOSE_PAREN); }

"{"         { count (0); return ('{'); }
"}"         { count (0); return ('}'); }
","         { count (0); return (','); }

/*
 * Begin standard ASL grammar
 */
[0-9][a-zA-Z0-9]*      { count (1); AslCompilerIval.i = UtDoConstant ((char *) AslCompilerItext);
                        return (PARSEOP_INTEGER); }

"Include"      { count (1); return (PARSEOP_INCLUDE); }
"External"     { count (1); return (PARSEOP_EXTERNAL); }

/*
 * The #line directive is emitted by the preprocessor and handled
 * here in the main iASL lexer - simply set the line number and
 * optionally
the current filename.
 */

```



```

"#line"          { AslDoLineDirective ();}

/*****
*
* Main ASL operators
*
*****/

"AccessAs"       { count (1); return (PARSEOP_ACCESSAS); }
"Acquire"        { count (3); return (PARSEOP_ACQUIRE); }
"Add"            { count (3); return (PARSEOP_ADD); }
"Alias"          { count (2); return (PARSEOP_ALIAS); }
"And"            { count (3); return (PARSEOP_AND); }
"BankField"      { count (2); return (PARSEOP_BANKFIELD); }
"Break"          { count (3); return (PARSEOP_BREAK); }
"BreakPoint"     { count (3); return (PARSEOP_BREAKPOINT); }
"Buffer"         { count (1); return (PARSEOP_BUFFER); }
"Case"           { count (3); return (PARSEOP_CASE); }
"Concatenate"    { count (3); return
(PARSEOP_CONCATENATE); }
"ConcatenateResTemplate" { count (3); return (PARSEOP_CONCATENATERESTEMPLATE); }
"CondRefOf"      { count (3); return (PARSEOP_CONDREFOF); }
"Connection"     { count (2); return (PARSEOP_CONNECTION); }
"Continue"       { count (3); return (PARSEOP_CONTINUE); }
"CopyObject"     { count (3); return (PARSEOP_COPYOBJECT); }
"CreateBitField" { count (2); return (PARSEOP_CREATEBITFIELD); }
"CreateByteField" { count (2); return (PARSEOP_CREATEBYTEFIELD); }
"CreateDWordField" { count (2); return (PARSEOP_CREATEDWORDFIELD); }
"CreateField"     { count (2); return (PARSEOP_CREATEFIELD); }
"CreateQWordField" { count (2); return (PARSEOP_CREATEQWORDFIELD); }
"CreateWordField" { count (2); return (PARSEOP_CREATEWORDFIELD); }
"DataTableRegion" { count (2); return (PARSEOP_DATATABLEREGION); }
"Debug"          { count (1); return (PARSEOP_DEBUG);
}
"Decrement"      { count (3); return (PARSEOP_DECREMENT); }
"Default"        { count (3); return (PARSEOP_DEFAULT); }
"DefinitionBlock" { count (1); return (PARSEOP_DEFINITION_BLOCK); }
"DeRefOf"        { count (3); return (PARSEOP_DEREFOf); }
"Device"         { count (2); return (PARSEOP_DEVICE); }
"Divide"         { count (3); return (PARSEOP_DIVIDE); }
"Eisaid"         { count (1); return (PARSEOP_EISAID); }
"Else"           { count (3); return (PARSEOP_ELSE); }
"ElseIf"         { count (3); return (PARSEOP_ELSEIF); }
"Event"          { count (2); return (PARSEOP_EVENT); }
"Fatal"          { count (3); return (PARSEOP_FATAL); }
"Field"          { count (2); return (PARSEOP_FIELD); }
"FindSetLeftBit" { count (3); return (PARSEOP_FINDSETLEFTBIT); }

```



```

"FindSetRightBit"      { count (3); return (PARSEOP_FINDSETRIGHTBIT); }
"FromBcd"
    { count (3); return (PARSEOP_FROMBCD); }
"Function"             { count (2); return (PARSEOP_FUNCTION); }
"If"                   { count (3); return (PARSEOP_IF); }
"Increment"            { count (3); return (PARSEOP_INCREMENT); }
"Index"                { count (3); return (PARSEOP_INDEX); }
"IndexField"           { count (2); return (PARSEOP_INDEXFIELD); }
"LAnd"                 { count (3); return (PARSEOP_LAND); }
"LEqual"               { count (3); return (PARSEOP_LEQUAL); }
"LGreater"             { count (3); return (PARSEOP_LGREATER); }
"LGreaterEqual"        { count (3); return (PARSEOP_LGREATEREQUAL); }
"LLess"                { count (3); return (PARSEOP_LLESS); }
"LLessEqual"           { count (3); return (PARSEOP_LLESSEQUAL); }
"LNot"                 { count (3); return (PARSEOP_LNOT); }
"LNotEqual"            { count (3); return (PARSEOP_LNOTEQUAL); }
"Load"                 { count (3); return (PARSEOP_LOAD); }
}
"LoadTable"            { count (3); return (PARSEOP_LOADTABLE); }
"LOr"                  { count (3); return (PARSEOP_LOR); }
"Match"                { count (3); return (PARSEOP_MATCH); }
"Method"               { count (2); return (PARSEOP_METHOD); }
"Mid"                  { count (3); return (PARSEOP_MID); }
"Mod"                  { count (3); return (PARSEOP_MOD); }
"Multiply"             { count (3); return (PARSEOP_MULTIPLY); }
"Mutex"                { count (2); return (PARSEOP_MUTEX); }
"Name"                 { count (2); return (PARSEOP_NAME); }
"NAnd"                 { count (3); return (PARSEOP_NAND); }
"Noop"                 { if (!AcpiGbl_IgnoreNoopOperator) {count (3); return (PARSEOP_NOOP); } }
"NOr"                  { count (3); return (PARSEOP_NOR); }
"Not"                  { count (3); return (PARSEOP_NOT); }
"Notify"               { count (3); return (PARSEOP_NOTIFY); }
"ObjectType"
    { count (3); return (PARSEOP_OBJECTTYPE); }
"Offset"               { count (1); return (PARSEOP_OFFSET); }
"One"                  { count (1); return (PARSEOP_ONE); }
"Ones"                 { count (1); return (PARSEOP_ONES); }
"OperationRegion"      { count (2); return (PARSEOP_OPERATIONREGION); }
"Or"                   { count (3); return (PARSEOP_OR); }
"Package"              { count (1); return (PARSEOP_PACKAGE); }
"PowerResource"         { count (2); return (PARSEOP_POWERRESOURCE); }
"Processor"            { count (2); return (PARSEOP_PROCESSOR); }
"RefOf"                { count (3); return (PARSEOP_REFOF); }
"Release"              { count (3); return (PARSEOP_RELEASE); }
"Reset"                { count (3); return (PARSEOP_RESET); }
"Return"               { count (3); return (PARSEOP_RETURN); }
"Revision"             { count (1); return (PARSEOP_REVISION); }
"Scope"                { count (2); return

```



```

(PARSEOP_SCOPE); }
"ShiftLeft"      { count (3); return (PARSEOP_SHIFLEFT); }
"ShiftRight"     { count (3); return (PARSEOP_SHIFTRIGHT); }
"Signal"         { count (3); return (PARSEOP_SIGNAL); }
"SizeOf"         { count (3); return (PARSEOP_SIZEOF); }
"Sleep"          { count (3); return (PARSEOP_SLEEP); }
"Stall"          { count (3); return (PARSEOP_STALL); }
"Store"          { count (3); return (PARSEOP_STORE); }
"Subtract"       { count (3); return (PARSEOP_SUBTRACT); }
"Switch"         { count (3); return (PARSEOP_SWITCH); }
"ThermalZone"    { count (2); return (PARSEOP_THERMALZONE); }
"Timer"          { count (3); return (PARSEOP_TIMER); }
"ToBcd"          { count (3); return (PARSEOP_TOBCD); }
"ToBuffer"       { count (3); return (PARSEOP_TOBUFFER); }
"ToDecimalString" { count (3); return (PARSEOP_TODECIMALSTRING); }
"ToHexString"    { count (3); return (PARSEOP_TOHEXSTRING); }
"ToInteger"      { count (3); return (PARSEOP_TOINTEGER); }
"ToString"       { count (3); return (PARSEOP_TOSTRING); }
"ToUuid"         { count (1); return (PARSEOP_TOUUID); }
"Unicode"        { count (1); return (PARSEOP_UNICODE); }
"Unload"         { count (3); return (PARSEOP_UNLOAD); }
"Wait"           { count (3); return (PARSEOP_WAIT); }
"While"          { count (3); return (PARSEOP_WHILE); }
"XOr"            { count (3); return (PARSEOP_XOR); }
"Zero"           { count (1); return (PARSEOP_ZERO); }

```

/\* Control method arguments and locals \*/

```

"Arg0"           { count (1); return (PARSEOP_ARG0); }
"Arg1"           { count (1); return (PARSEOP_ARG1); }
"Arg2"           { count (1); return (PARSEOP_ARG2); }
"Arg3"           { count (1); return (PARSEOP_ARG3); }
"Arg4"           { count (1); return (PARSEOP_ARG4); }
"Arg5"           { count (1); return (PARSEOP_ARG5); }
"Arg6"           { count (1); return (PARSEOP_ARG6); }
"Local0"         { count (1); return (PARSEOP_LOCAL0); }
"Local1"         { count (1); return (PARSEOP_LOCAL1); }
"Local2"         { count (1); return (PARSEOP_LOCAL2); }
"Local3"         { count (1); return (PARSEOP_LOCAL3); }
"Local4"         { count (1); return (PARSEOP_LOCAL4); }
"Local5"         { count (1); return (PARSEOP_LOCAL5); }
"Local6"         { count (1); return (PARSEOP_LOCAL6); }
"Local7"         { count (1); return (PARSEOP_LOCAL7); }

```

/\*\*\*\*\*\*



```

*
* Resource Descriptor macros
*
*****/

"ResourceTemplate"      { count (1); return (PARSEOP_RESOURCETEMPLATE);
}

"RawDataBuffer"        { count (1); return (PARSEOP_DATABUFFER); }

"DMA"                  { count (1); return (PARSEOP_DMA); }
"DWordIO"              { count (1); return (PARSEOP_DWORDIO); }
"DWordMemory"          { count (1); return (PARSEOP_DWORDMEMORY); }
"DWordSpace"           { count (1); return (PARSEOP_DWORDSPACE); }
"EndDependentFn"       { count (1); return (PARSEOP_ENDDEPENDENTFN); }
"ExtendedIO"           { count (1); return (PARSEOP_EXTENDEDIO); }
"ExtendedMemory"       { count (1); return (PARSEOP_EXTENDEDMEMORY); }
"ExtendedSpace"        { count (1); return (PARSEOP_EXTENDEDSPACE); }
"FixedDma"             { count (1); return (PARSEOP_FIXEDDMA); }
"FixedIO"              { count (1); return (PARSEOP_FIXEDIO); }
"GpioInt"              { count (1); return (PARSEOP_GPIO_INT); }
"GpioIo"               { count (1); return (PARSEOP_GPIO_IO); }
"I2cSerialBus"         { count (1); return (PARSEOP_I2C_SERIALBUS);
}
"I2cSerialBusV2"       { count (1); return (PARSEOP_I2C_SERIALBUS_V2); }
"Interrupt"            { count (1); return (PARSEOP_INTERRUPT); }
"IO"                   { count (1); return (PARSEOP_IO); }
"IRQ"                  { count (1); return (PARSEOP_IRQ); }
"IRQNoFlags"           { count (1); return (PARSEOP_IRQNOFLAGS); }
"Memory24"             { count (1); return (PARSEOP_MEMORY24); }
"Memory32"             { count (1); return (PARSEOP_MEMORY32); }
"Memory32Fixed"        { count (1); return (PARSEOP_MEMORY32FIXED); }
"PinConfig"            { count (1); return (PARSEOP_PINCONFIG); }
"PinFunction"          { count (1); return (PARSEOP_PINFUNCTION); }
"PinGroup"             { count (1); return (PARSEOP_PINGROUP); }
"PinGroupConfig"       { count (1); return (PARSEOP_PINGROUPCONFIG); }
"PinGroupFunction"     { count (1); return (PARSEOP_PINGROUPFUNCTION); }
"QWordIO"              { count (1); return (PARSEOP_QWORDIO);
}
"QWordMemory"          { count (1); return (PARSEOP_QWORDMEMORY); }
"QWordSpace"           { count (1); return (PARSEOP_QWORDSPACE); }
"Register"            { count (1); return (PARSEOP_REGISTER); }
"SpiSerialBus"         { count (1); return (PARSEOP_SPI_SERIALBUS); }
"SpiSerialBusV2"       { count (1); return (PARSEOP_SPI_SERIALBUS_V2); }
"StartDependentFn"     { count (1); return (PARSEOP_STARTDEPENDENTFN); }
"StartDependentFnNoPri" { count (1); return (PARSEOP_STARTDEPENDENTFN_NOPRI); }
"UartSerialBus"        { count (1); return (PARSEOP_UART_SERIALBUS); }
"UartSerialBusV2"      { count (1); return (PARSEOP_UART_SERIALBUS_V2); }
"VendorLong"          { count (1); return (PARSEOP_VENDORLONG); }

```



```

"VendorShort"      { count (1); return (PARSEOP_VENDORSHORT); }
"WordBusNumber"    { count (1); return (PARSEOP_WORDBUSNUMBER); }
"WordIO"           { count (1); return (PARSEOP_WORDIO); }
"WordSpace"        { count (1); return (PARSEOP_WORDSPEACE); }

/*****
*
* Keywords used as arguments to ASL operators and macros
*
*****/

/* AccessAttribKeyword: Serial Bus Attributes (ACPI 5.0) */

"AttribQuick"      { count (0); return (PARSEOP_ACCESSATTRIB_QUICK); }
"AttribSendReceive" { count (0); return (PARSEOP_ACCESSATTRIB_SND_RCV); }
"AttribByte"       { count (0); return (PARSEOP_ACCESSATTRIB_BYTE); }
"AttribWord"       { count (0); return (PARSEOP_ACCESSATTRIB_WORD); }
"AttribBlock"      { count (0); return (PARSEOP_ACCESSATTRIB_BLOCK); }
"AttribProcessCall" { count (0); return (PARSEOP_ACCESSATTRIB_WORD_CALL); }
"AttribBlockProcessCall" { count (0); return (PARSEOP_ACCESSATTRIB_BLOCK_CALL); }

/* AccessAttribKeyword: Legacy synonyms for above (pre-ACPI 5.0) */

"SMBQuick"
    { count (0); return (PARSEOP_ACCESSATTRIB_QUICK); }
"SMBSendReceive"   { count (0); return (PARSEOP_ACCESSATTRIB_SND_RCV); }
"SMBByte"          { count (0); return (PARSEOP_ACCESSATTRIB_BYTE); }
"SMBWord"          { count (0); return (PARSEOP_ACCESSATTRIB_WORD); }
"SMBBlock"         { count (0); return (PARSEOP_ACCESSATTRIB_BLOCK); }
"SMBProcessCall"   { count (0); return (PARSEOP_ACCESSATTRIB_WORD_CALL); }
"SMBBlockProcessCall" { count (0); return (PARSEOP_ACCESSATTRIB_BLOCK_CALL); }

/* AccessTypeKeyword: Field Access Types */

"AnyAcc"           { count (0); return (PARSEOP_ACCESTYPE_ANY); }
"ByteAcc"          { count (0); return (PARSEOP_ACCESTYPE_BYTE); }
"WordAcc"          { count (0); return (PARSEOP_ACCESTYPE_WORD); }
"DWordAcc"         { count (0); return (PARSEOP_ACCESTYPE_DWORD); }
"QWordAcc"         { count (0); return (PARSEOP_ACCESTYPE_QWORD); }
"BufferAcc"
    { count (0); return (PARSEOP_ACCESTYPE_BUF); }

/* AddressingModeKeyword: Mode - Resource Descriptors (ACPI 5.0) */

"AddressingMode7Bit" { count (0); return (PARSEOP_ADDRESSINGMODE_7BIT); }
"AddressingMode10Bit" { count (0); return (PARSEOP_ADDRESSINGMODE_10BIT); }

```



```

/* AddressKeyword: ACPI memory range types */

"AddressRangeMemory"    { count (0); return (PARSEOP_ADDRESSTYPE_MEMORY); }
"AddressRangeReserved"  { count (0); return (PARSEOP_ADDRESSTYPE_RESERVED); }
"AddressRangeNVS"       { count (0); return (PARSEOP_ADDRESSTYPE_NVS); }
"AddressRangeACPI"      { count (0); return (PARSEOP_ADDRESSTYPE_ACPI); }

/* BusMasterKeyword: DMA Bus Mastering */

"BusMaster"             { count (0); return (PARSEOP_BUSMASTERTYPE_MASTER); }
"NotBusMaster"           { count (0); return (PARSEOP_BUSMASTERTYPE_NOTMASTER); }

/* ByteLengthKeyword: Bits per Byte - Resource Descriptors (ACPI 5.0) */

"DataBitsFive"          { count (0); return (PARSEOP_BITSPERBYTE_FIVE); }
"DataBitsSix"           { count (0); return (PARSEOP_BITSPERBYTE_SIX); }
"DataBitsSeven"         { count (0); return (PARSEOP_BITSPERBYTE_SEVEN); }
"DataBitsEight"         { count (0); return (PARSEOP_BITSPERBYTE_EIGHT); }
"DataBitsNine"          { count (0); return (PARSEOP_BITSPERBYTE_NINE); }

/* ClockPhaseKeyword: Resource Descriptors (ACPI 5.0) */

"ClockPhaseFirst"       { count (0); return (PARSEOP_CLOCKPHASE_FIRST); }
"ClockPhaseSecond"      { count (0); return (PARSEOP_CLOCKPHASE_SECOND); }

/* ClockPolarityKeyword: Resource Descriptors (ACPI 5.0) */

"ClockPolarityLow"      { count (0); return (PARSEOP_CLOCKPOLARITY_LOW); }
"ClockPolarityHigh"     { count (0); return (PARSEOP_CLOCKPOLARITY_HIGH); }

/* DecodeKeyword: Type of Memory Decoding - Resource Descriptors */

"PosDecode"             { count (0); return (PARSEOP_DECODETYPE_POS); }
"SubDecode"             { count (0);
return (PARSEOP_DECODETYPE_SUB); }

/* DmaTypeKeyword: DMA Types - DMA Resource Descriptor */

"Compatibility"         { count (0); return (PARSEOP_DMATYPE_COMPATIBILITY); }
"TypeA"                 { count (0); return (PARSEOP_DMATYPE_A); }
"TypeB"                 { count (0); return (PARSEOP_DMATYPE_B); }
"TypeF"                 { count (0); return (PARSEOP_DMATYPE_F); }

/* EndianKeyword: Endian type - Resource Descriptor (ACPI 5.0) */

"LittleEndian"          { count (0); return (PARSEOP_ENDIAN_LITTLE); }

```



```

"BigEndian"          { count (0); return (PARSEOP_ENDIAN_BIG); }

/* ExtendedAttribKeyword: Bus attributes, AccessAs operator (ACPI 5.0) */

"AttribBytes"        { count (0); return (PARSEOP_ACCESSATTRIB_BYTES); }
"AttribRawBytes"     { count (0); return (PARSEOP_ACCESSATTRIB_RAW_BYTES); }
"AttribRawProcessBytes" { count (0); return (PARSEOP_ACCESSATTRIB_RAW_PROCESS); }

/* FlowControlKeyword: Resource Descriptors (ACPI
5.0) */

"FlowControlHardware" { count (0); return (PARSEOP_FLOWCONTROL_HW); }
"FlowControlNone"    { count (0); return (PARSEOP_FLOWCONTROL_NONE); }
"FlowControlXon"     { count (0); return (PARSEOP_FLOWCONTROL_SW); }

/* InterruptLevelKeyword: Interrupt Active Types */

"ActiveBoth"         { count (0); return (PARSEOP_INTLEVEL_ACTIVEBOTH); }
"ActiveHigh"         { count (0); return (PARSEOP_INTLEVEL_ACTIVEHIGH); }
"ActiveLow"          { count (0); return (PARSEOP_INTLEVEL_ACTIVELOW); }

/* InterruptTypeKeyword: Interrupt Types */

"Edge"              { count (0); return (PARSEOP_INTTYPE_EDGE); }
"Level"             { count (0); return (PARSEOP_INTTYPE_LEVEL); }

/* IoDecodeKeyword: Type of Memory Decoding - Resource Descriptors */

"Decode10"          { count (0); return (PARSEOP_IODECODETYPE_10); }
"Decode16"          { count (0); return (PARSEOP_IODECODETYPE_16); }

/* IoRestrictionKeyword:
I/O Restriction - GPIO Resource Descriptors (ACPI 5.0) */

"IoRestrictionNone" { count (0); return (PARSEOP_IORESTRICT_NONE); }
"IoRestrictionInputOnly" { count (0); return (PARSEOP_IORESTRICT_IN); }
"IoRestrictionOutputOnly" { count (0); return (PARSEOP_IORESTRICT_OUT); }
"IoRestrictionNoneAndPreserve" { count (0); return (PARSEOP_IORESTRICT_PRESERVE); }

/* LockRuleKeyword: Global Lock use for Field Operator */

"Lock"              { count (0); return (PARSEOP_LOCKRULE_LOCK); }
"NoLock"            { count (0); return (PARSEOP_LOCKRULE_NOLOCK); }

/* MatchOpKeyword: Types for Match Operator */

"MTR"               { count (0); return (PARSEOP_MATCHTYPE_MTR); }
"MEQ"               { count (0); return (PARSEOP_MATCHTYPE_MEQ); }

```



```

"MLE"          { count (0); return (PARSEOP_MATCHTYPE_MLE); }
"MLT"          { count (0); return (PARSEOP_MATCHTYPE_MLT); }
"MGE"          { count (0); return (PARSEOP_MATCHTYPE_MGE); }
}
"MGT"          { count (0); return (PARSEOP_MATCHTYPE_MGT); }

/* MaxKeyword: Max Range Type - Resource Descriptors */

"MaxFixed"      { count (0); return (PARSEOP_MAXTYPE_FIXED); }
"MaxNotFixed"   { count (0); return (PARSEOP_MAXTYPE_NOTFIXED); }

/* MemTypeKeyword: Memory Types - Resource Descriptors */

"Cacheable"     { count (0); return (PARSEOP_MEMTYPE_CACHEABLE); }
"WriteCombining" { count (0); return (PARSEOP_MEMTYPE_WRITECOMBINING); }
"Prefetchable"  { count (0); return (PARSEOP_MEMTYPE_PREFETCHABLE); }
"NonCacheable"  { count (0); return (PARSEOP_MEMTYPE_NONCACHEABLE); }

/* MinKeyword: Min Range Type - Resource Descriptors */

"MinFixed"      { count (0); return (PARSEOP_MINTYPE_FIXED); }
"MinNotFixed"   { count (0); return (PARSEOP_MINTYPE_NOTFIXED); }

/* ObjectTypeKeyword: ACPI Object Types */

"UnknownObj"    { count (0);
return (PARSEOP_OBJECTTYPE_UNK); }
"IntObj"        { count (0); return (PARSEOP_OBJECTTYPE_INT); }
"StrObj"        { count (0); return (PARSEOP_OBJECTTYPE_STR); }
"BuffObj"       { count (0); return (PARSEOP_OBJECTTYPE_BUF); }
"PkgObj"        { count (0); return (PARSEOP_OBJECTTYPE_PKG); }
"FieldUnitObj"  { count (0); return (PARSEOP_OBJECTTYPE_FLD); }
"DeviceObj"     { count (0); return (PARSEOP_OBJECTTYPE_DEV); }
"EventObj"      { count (0); return (PARSEOP_OBJECTTYPE_EVT); }
"MethodObj"     { count (0); return (PARSEOP_OBJECTTYPE_MTH); }
"MutexObj"      { count (0); return (PARSEOP_OBJECTTYPE_MTX); }
"OpRegionObj"   { count (0); return (PARSEOP_OBJECTTYPE_OPR); }
"PowerResObj"   { count (0); return (PARSEOP_OBJECTTYPE_POW); }
"ProcessorObj"  { count (0); return (PARSEOP_OBJECTTYPE_PRO); }
"ThermalZoneObj" { count (0); return (PARSEOP_OBJECTTYPE_THZ); }
}
"BuffFieldObj"  { count (0); return (PARSEOP_OBJECTTYPE_BFF); }
"DDBHandleObj"  { count (0); return (PARSEOP_OBJECTTYPE_DDB); }

/* ParityKeyword: Resource Descriptors (ACPI 5.0) */

"ParityTypeSpace" { count (0); return (PARSEOP_PARITYTYPE_SPACE); }
"ParityTypeMark"  { count (0); return (PARSEOP_PARITYTYPE_MARK); }

```



```

"ParityTypeOdd"      { count (0); return (PARSEOP_PARITYTYPE_ODD); }
"ParityTypeEven"     { count (0); return (PARSEOP_PARITYTYPE_EVEN); }
"ParityTypeNone"     { count (0); return (PARSEOP_PARITYTYPE_NONE); }

```

/\* PinConfigKeyword: Pin Configuration - GPIO Resource Descriptors (ACPI 5.0) \*/

```

"PullDefault"        { count (0); return (PARSEOP_PIN_PULLDEFAULT); }
"PullUp"              { count (0); return (PARSEOP_PIN_PULLUP); }
"PullDown"           { count (0); return (PARSEOP_PIN_PULLDOWN); }
"PullNone"           { count (0); return (PARSEOP_PIN_NOPULL); }
}

```

/\* PolarityKeyword: Resource Descriptors (ACPI 5.0) \*/

```

"PolarityLow"         { count (0); return (PARSEOP_DEVICEPOLARITY_LOW); }
"PolarityHigh"        { count (0); return (PARSEOP_DEVICEPOLARITY_HIGH); }

```

/\* RangeTypeKeyword: I/O Range Types - Resource Descriptors \*/

```

"ISAOnlyRanges"       { count (0); return (PARSEOP_RANGETYPE_ISAONLY); }
"NonISAOnlyRanges"    { count (0); return (PARSEOP_RANGETYPE_NONISAONLY); }
"EntireRange"         { count (0); return (PARSEOP_RANGETYPE_ENTIRE); }

```

/\* ReadWriteKeyword: Memory Access Types - Resource Descriptors \*/

```

"ReadWrite"           { count (0); return (PARSEOP_READWRITETYPE_BOTH); }
"ReadOnly"            { count (0); return (PARSEOP_READWRITETYPE_READONLY); }

```

/\* RegionSpaceKeyword: Operation Region Address Space Types \*/

```

"SystemIO"            { count (0); return (PARSEOP_REGIONSPACE_IO); }
"SystemMemory"        { count (0); return (PARSEOP_REGIONSPACE_MEM); }
"PCI_Config"          { count (0); return (PARSEOP_REGIONSPACE_PCI); }
"EmbeddedControl"     { count (0); return (PARSEOP_REGIONSPACE_EC); }
"SMBus"               { count (0); return (PARSEOP_REGIONSPACE_SMBUS); }
"SystemCMOS"          { count (0); return (PARSEOP_REGIONSPACE_CMOS); }
"PciBarTarget"        { count (0); return (PARSEOP_REGIONSPACE_PCIBAR); }
"IPMI"                { count (0); return (PARSEOP_REGIONSPACE_IPMI); }
"GeneralPurposeIo"    { count (0); return (PARSEOP_REGIONSPACE_GPIO); } /* ACPI 5.0 */
"GenericSerialBus"    { count (0); return (PARSEOP_REGIONSPACE_GSBUS); } /* ACPI 5.0 */
"PCC"                 { count (0); return (PARSEOP_REGIONSPACE_PCC); } /* ACPI 5.0 */
"PlatformRtMechanism" { count (0); return (PARSEOP_REGIONSPACE_PRM); }
"FFixedHW"            { count (0); return (PARSEOP_REGIONSPACE_FFIXEDHW); }

```

/\* ResourceTypeKeyword: Resource Usage - Resource Descriptors \*/

```

"ResourceConsumer"

```



```

        { count (0); return (PARSEOP_RESOURCECETYPE_CONSUMER); }
"ResourceProducer"      { count (0); return (PARSEOP_RESOURCECETYPE_PRODUCER); }

/* SerializeRuleKeyword: Control Method Serialization */

"Serialized"            { count (0); return (PARSEOP_SERIALIZERULE_SERIAL); }
"NotSerialized"         { count (0); return (PARSEOP_SERIALIZERULE_NOTSERIAL); }

/* ShareTypeKeyword: Interrupt Sharing - Resource Descriptors */

"Shared"                { count (0); return (PARSEOP_SHARETYPE_SHARED); }
"Exclusive"             { count (0); return (PARSEOP_SHARETYPE_EXCLUSIVE); }
"SharedAndWake"         { count (0); return (PARSEOP_SHARETYPE_SHAREDWAKE); } /* ACPI 5.0 */
"ExclusiveAndWake"      { count (0); return (PARSEOP_SHARETYPE_EXCLUSIVEWAKE); } /* ACPI 5.0
*/

/* SlaveModeKeyword: Resource Descriptors (ACPI 5.0) */

"ControllerInitiated"   { count (0); return (PARSEOP_SLAVEMODE_CONTROLLERINIT); }
"DeviceInitiated"      { count
(0); return (PARSEOP_SLAVEMODE_DEVICEINIT); }

/* StopBitsKeyword: Resource Descriptors (ACPI 5.0) */

"StopBitsOne"          { count (0); return (PARSEOP_STOPBITS_ONE); }
"StopBitsOnePlusHalf"  { count (0); return (PARSEOP_STOPBITS_ONEPLUSHALF); }
"StopBitsTwo"          { count (0); return (PARSEOP_STOPBITS_TWO); }
"StopBitsZero"         { count (0); return (PARSEOP_STOPBITS_ZERO); }

/* TransferWidthKeyword: DMA Widths - Fixed DMA Resource Descriptor (ACPI 5.0) */

"Width8bit"            { count (0); return (PARSEOP_XFERSIZE_8); }
"Width16bit"           { count (0); return (PARSEOP_XFERSIZE_16); }
"Width32bit"           { count (0); return (PARSEOP_XFERSIZE_32); }
"Width64bit"           { count (0); return (PARSEOP_XFERSIZE_64); }
"Width128bit"          { count (0); return (PARSEOP_XFERSIZE_128); }
"Width256bit"          { count (0); return (PARSEOP_XFERSIZE_256); }

/* TranslationKeyword: Translation Density Types - Resource
Descriptors */

"SparseTranslation"     { count (0); return (PARSEOP_TRANSLATIONTYPE_SPARSE); }
"DenseTranslation"      { count (0); return (PARSEOP_TRANSLATIONTYPE_DENSE); }

/* TypeKeyword: Translation Types - Resource Descriptors */

"TypeTranslation"       { count (0); return (PARSEOP_TYPE_TRANSLATION); }
"TypeStatic"           { count (0); return (PARSEOP_TYPE_STATIC); }

```



```

/* UpdateRuleKeyword: Field Update Rules */

"Preserve"          { count (0); return (PARSEOP_UPDATERULE_PRESERVE); }
"WriteAsOnes"       { count (0); return (PARSEOP_UPDATERULE_ONES); }
"WriteAsZeros"      { count (0); return (PARSEOP_UPDATERULE_ZEROS); }


/* WireModeKeyword: SPI Wire Mode - Resource Descriptors (ACPI 5.0) */

"FourWireMode"      { count (0); return (PARSEOP_WIREMODE_FOUR); }
"ThreeWireMode"     { count (0); return (PARSEOP_WIREMODE_THREE); }


/* XferTypeKeyword: DMA Transfer Types */

"Transfer8"          {
count (0); return (PARSEOP_XFERTYPE_8); }
"Transfer8_16"       { count (0); return (PARSEOP_XFERTYPE_8_16); }
"Transfer16"         { count (0); return (PARSEOP_XFERTYPE_16); }


/* ToPld macro */

"ToPLD"              { count (0); return (PARSEOP_TOPLD); }

"PLD_Revision"       { count (0); return (PARSEOP_PLD_REVISION); }
"PLD_IgnoreColor"    { count (0); return (PARSEOP_PLD_IGNORECOLOR); }
"PLD_Red"            { count (0); return (PARSEOP_PLD_RED); }
"PLD_Green"          { count (0); return (PARSEOP_PLD_GREEN); }
"PLD_Blue"           { count (0); return (PARSEOP_PLD_BLUE); }
"PLD_Width"          { count (0); return (PARSEOP_PLD_WIDTH); }
"PLD_Height"         { count (0); return (PARSEOP_PLD_HEIGHT); }
"PLD_UserVisible"    { count (0); return (PARSEOP_PLD_USERVISIBLE); }
"PLD_Dock"           { count (0); return (PARSEOP_PLD_DOCK); }
"PLD_Lid"            { count (0); return (PARSEOP_PLD_LID);
}
"PLD_Panel"          { count (0); return (PARSEOP_PLD_PANEL); }
"PLD_VerticalPosition" { count (0); return (PARSEOP_PLD_VERTICALPOSITION); }
"PLD_HorizontalPosition" { count (0); return (PARSEOP_PLD_HORIZONTALPOSITION); }
"PLD_Shape"          { count (0); return (PARSEOP_PLD_SHAPE); }
"PLD_GroupOrientation" { count (0); return (PARSEOP_PLD_GROUPORIENTATION); }
"PLD_GroupToken"     { count (0); return (PARSEOP_PLD_GROUPTOKEN); }
"PLD_GroupPosition"  { count (0); return (PARSEOP_PLD_GROUPPOSITION); }
"PLD_Bay"            { count (0); return (PARSEOP_PLD_BAY); }
"PLD_Ejectable"      { count (0); return (PARSEOP_PLD_EJECTABLE); }
"PLD_EjectRequired"  { count (0); return (PARSEOP_PLD_EJECTREQUIRED); }
"PLD_CabinetNumber"  { count (0); return (PARSEOP_PLD_CABINETNUMBER); }
"PLD_CardCageNumber" { count (0); return (PARSEOP_PLD_CARDCAGENUMBER); }
"PLD_Reference"      { count (0); return (PARSEOP_PLD_REFERENCE); }

```



```

}
"PLD_Rotation"      { count (0); return (PARSEOP_PLD_ROTATION); }
"PLD_Order"         { count (0); return (PARSEOP_PLD_ORDER); }
"PLD_Reserved"      { count (0); return (PARSEOP_PLD_RESERVED); }
"PLD_VerticalOffset" { count (0); return (PARSEOP_PLD_VERTICALOFFSET); }
"PLD_HorizontalOffset" { count (0); return (PARSEOP_PLD_HORIZONTALOFFSET); }

```

```

/* printf debug macros */

```

```

"printf"           { count (0); return (PARSEOP_PRINTF); }
"fprintf"          { count (0); return (PARSEOP_FPRINTF); }

```

```

/* Other macros */

```

```

"For"              { count (0); return (PARSEOP_FOR); }

```

```

/* Predefined compiler names */

```

```

"__DATE__"         { count (0); return (PARSEOP__DATE__); }
"__FILE__"         { count (0); return (PARSEOP__FILE__); }
"__LINE__"         { count (0); return (PARSEOP__LINE__); }
"__PATH__"         { count (0); return (PARSEOP__PATH__); }
"__METHOD__"       { count (0);
return (PARSEOP__METHOD__); }
"__EXPECT__"{ErrorCode} { char *s;
                unsigned int index = 0;
                count (0);
                while (!isdigit ((int) AslCompilertext[index]))
                {
                    index++;
                }

                /*
                 * The error code is contained inside the
                 * {ErrorCode} pattern. Extract it and log it
                 * as the expected error code.
                 */
                s = UtLocalCacheCalloc (ASL_ERROR_CODE_LENGTH + 1);
                memcpy (s, AslCompilertext + index, ASL_ERROR_CODE_LENGTH);
                AslLogExpectedExceptionByLine (s); }

```

```

{NameSeg}          { char *s;
count (0);

```

```

s=UtLocalCacheCalloc (ACPI_NAMESEG_SIZE + 1);
if (strcmp (AslCompilertext, "\\")
{

```



```

/*
 * According to the ACPI specification,
 * NameSegments must have length of 4. If
 * the NameSegment has length less than 4,
 * they are padded with underscores to meet
 * the required length.
 */
strcpy (s, "____");
}
memcpy (s, AslCompilerText, strlen (AslCompilerText));
AslCompilerIval.s = s;
DbgPrint (ASL_PARSE_OUTPUT, "NameSeg: %s\n", s);
return (PARSEOP_NAMESEG); }

{NameString}
{ char *s;
  count (0);
  s=UtLocalCacheCalloc (strlen (AslCompilerText)+1);
  strcpy (s, AslCompilerText);
  AslCompilerIval.s = s;
  DbgPrint (ASL_PARSE_OUTPUT, "NameString: %s\n", s);
  return (PARSEOP_NAMESTRING); }

.
{ count (1);
  if (isprint ((int) *AslCompilerText))
  {
    sprintf (AslGbl_MsgBuffer,
      "Invalid character (%c), expecting ASL keyword or name",
      *AslCompilerText);
  }
  else
  {
    sprintf (AslGbl_MsgBuffer,
      "Invalid character
(0x%2.2X), expecting ASL keyword or name",
      *AslCompilerText);
  }
  AslCompilerError (AslGbl_MsgBuffer);}

<<EOF>>      { if (AslPopInputFileStack ())
               { yyterminate();}
               else
               {return (PARSEOP_INCLUDE_END);} };

%%

/*! [End] no source code translation !*/

```



```
/*
 * Bring in the scanner support routines
 */
#include "aslsupport.l"
```

Found in path(s):

`/opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslcompiler.l`

No license file was found, but licenses were detected in source scan.

NoEcho('

```
/*
 *
 * Module Name: aslresources.y - Bison/Yacc production rules for resources
 *
 * - Keep this file synched with the
 *
 * CvParseOpBlockType function in cvcompiler.c
 *
 */

```

```
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 */

```



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```

```

/*****

```

```

')

```

```

/*****

```

```

* ASL Resource Template Terms

```

```

/*****

```

```

/*

```

```

* Note: Create two default nodes to allow conversion to a Buffer AML opcode

```

```

* Also, insert the EndTag at the end of the template.

```

```

*/

```

```

ResourceTemplateTerm

```

```

: PARSEOP_RESOURCETEMPLATE {COMMENT_CAPTURE_OFF;}

```

```

OptionalParentheses

```

```

{'

```

```

ResourceMacroList '}' { $$ = TrCreateOp (PARSEOP_RESOURCETEMPLATE,4,

```

```

TrCreateLeafOp (PARSEOP_DEFAULT_ARG),

```

```

TrCreateLeafOp (PARSEOP_DEFAULT_ARG),

```

```

$5,

```

```

TrCreateLeafOp (PARSEOP_ENDTAG));

```



```

                                COMMENT_CAPTURE_ON;}

;

OptionalParentheses
:                                {$$ = NULL;}
| PARSEOP_OPEN_PAREN
  PARSEOP_CLOSE_PAREN          {$$ = NULL;}
;

ResourceMacroList
:                                {$$ = NULL;}
| ResourceMacroList
  ResourceMacroTerm             {$$ = TrLinkPeerOp ($1,$2);}
;

ResourceMacroTerm
: DMATerm                       {}
| DWordIOTerm                   {}
| DWordMemoryTerm               {}
| DWordSpaceTerm                {}
| EndDependentFnTerm
  {}
| ExtendedIOTerm                {}
| ExtendedMemoryTerm            {}
| ExtendedSpaceTerm             {}
| FixedDmaTerm                  {}
| FixedIOTerm                   {}
| GpioIntTerm                   {}
| GpioIoTerm                    {}
| I2cSerialBusTerm              {}
| I2cSerialBusTermV2            {}
| InterruptTerm                 {}
| IOTerm                        {}
| IRQNoFlagsTerm                {}
| IRQTerm                       {}
| Memory24Term                  {}
| Memory32FixedTerm             {}
| Memory32Term                  {}
| PinConfigTerm                 {}
| PinFunctionTerm               {}
| PinGroupTerm                  {}
| PinGroupConfigTerm            {}
| PinGroupFunctionTerm          {}
| QWordIOTerm                   {}
| QWordMemoryTerm               {}
| QWordSpaceTerm                {}
| RegisterTerm                  {}
| SpiSerialBusTerm

```



```

    {}
| SpiSerialBusTermV2      {}
| StartDependentFnNoPriTerm  {}
| StartDependentFnTerm      {}
| UartSerialBusTerm        {}
| UartSerialBusTermV2      {}
| VendorLongTerm           {}
| VendorShortTerm          {}
| WordBusNumberTerm        {}
| WordIOTerm               {}
| WordSpaceTerm            {}
;

```

#### DMATerm

```

: PARSEOP_DMA
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_DMA);}
  DMATypeKeyword
  OptionalBusMasterKeyword
  ',' XferTypeKeyword
  OptionalNameString_Last
  PARSEOP_CLOSE_PAREN '{'
    ByteList ','          {$$ = TrLinkOpChildren ($<n>3,5,$4,$5,$7,$8,$11);}
| PARSEOP_DMA
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### DWordIOTerm

```

: PARSEOP_DWORDIO
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_DWORDIO);}
  OptionalResourceType_First
  OptionalMinType
  OptionalMaxType
  OptionalDecodeType
  OptionalRangeType
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  OptionalByteConstExpr
  OptionalStringData
  OptionalNameString
  OptionalType
  OptionalTranslationType_Last
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,15,
    $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$19,$20,$21,$22,$23);}
| PARSEOP_DWORDIO

```



```

PARSEOP_OPEN_PAREN
error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

DWordMemoryTerm
: PARSEOP_DWORDMEMORY
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_DWORDMEMORY);}
  OptionalResourceType_First
  OptionalDecodeType
  OptionalMinType
  OptionalMaxType
  OptionalMemType
  ',' OptionalReadWriteKeyword
  ','
DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  OptionalByteConstExpr
  OptionalStringData
  OptionalNameString
  OptionalAddressRange
  OptionalType_Last
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,16,
                                $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$20,$21,$22,$23,$24,$25);}
| PARSEOP_DWORDMEMORY
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

DWordSpaceTerm
: PARSEOP_DWORDSPACE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_DWORDSPACE);}
  ByteConstExpr           {UtCheckIntegerRange ($4, 0xC0, 0xFF);}
  OptionalResourceType
  OptionalDecodeType
  OptionalMinType
  OptionalMaxType
  ',' ByteConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  OptionalByteConstExpr
  OptionalStringData
  OptionalNameString_Last

```



```

    PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,14,
                                $4,$6,$7,$8,$9,$11,$13,$15,$17,$19,$21,$22,$23,$24);}
| PARSEOP_DWORDSPACE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

EndDependentFnTerm
: PARSEOP_ENDDEPENDENTFN
    PARSEOP_OPEN_PAREN
    PARSEOP_CLOSE_PAREN      {$$ = TrCreateLeafOp (PARSEOP_ENDDEPENDENTFN);}
| PARSEOP_ENDDEPENDENTFN
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

ExtendedIOTerm
: PARSEOP_EXTENDEUDIO
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_EXTENDEUDIO);}
    OptionalResourceType_First
    OptionalMinType
    OptionalMaxType
    OptionalDecodeType
    OptionalRangeType
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    OptionalQWordConstExpr
    OptionalNameString
    OptionalType
    OptionalTranslationType_Last
    PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,14,
                                $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$19,$20,$21,$22);}
| PARSEOP_EXTENDEUDIO
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

ExtendedMemoryTerm
: PARSEOP_EXTENDEDMEMORY
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_EXTENDEDMEMORY);}
    OptionalResourceType_First
    OptionalDecodeType
    OptionalMinType
    OptionalMaxType
    OptionalMemType

```



```

    ' OptionalReadWriteKeyword
    ' QWordConstExpr
    ' QWordConstExpr
    ' QWordConstExpr
    ' QWordConstExpr
    ' QWordConstExpr
    OptionalQWordConstExpr
    OptionalNameString

OptionalAddressRange
    OptionalType_Last
    PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,15,
                                $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$20,$21,$22,$23,$24);}
| PARSEOP_EXTENDEDMEMORY
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN    {$$ = AslDoError(); yyclearin;}
;

ExtendedSpaceTerm
: PARSEOP_EXTENDEDSPACE PARSEOP_OPEN_PAREN    {$<n>$ = TrCreateLeafOp
(PARSEOP_EXTENDEDSPACE);}
    ByteConstExpr            {UtCheckIntegerRange ($4, 0xC0, 0xFF);}
    OptionalResourceType
    OptionalDecodeType
    OptionalMinType
    OptionalMaxType
    ' ByteConstExpr
    ' QWordConstExpr
    ' QWordConstExpr
    ' QWordConstExpr
    ' QWordConstExpr
    ' QWordConstExpr
    OptionalQWordConstExpr
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN            {$$ = TrLinkOpChildren ($<n>3,13,
                                $4,$6,$7,$8,$9,$11,$13,$15,$17,$19,$21,$22,$23);}
| PARSEOP_EXTENDEDSPACE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN            {$$ = AslDoError(); yyclearin;}
;

FixedDmaTerm
: PARSEOP_FIXEDDMA
    PARSEOP_OPEN_PAREN            {$<n>$ = TrCreateLeafOp (PARSEOP_FIXEDDMA);}
    WordConstExpr                /* 04: DMA RequestLines */
    ' WordConstExpr                /* 06: DMA Channels */
    OptionalXferSize                /* 07: DMA TransferSize */
    OptionalNameString            /* 08: DescriptorName */

```



```

    PARSEOP_CLOSE_PAREN          {$$ = TrLinkOpChildren ($<n>3,4,$4,$6,$7,$8);}
| PARSEOP_FIXEDDMA
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN          {$$ = AslDoError(); yyclearin;}
;

```

#### FixedIOTerm

```

: PARSEOP_FIXEDIO
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_FIXEDIO);}
    WordConstExpr
    ',' ByteConstExpr
    OptionalNameString_Last

    PARSEOP_CLOSE_PAREN          {$$ = TrLinkOpChildren ($<n>3,3,$4,$6,$7);}
| PARSEOP_FIXEDIO
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN          {$$ = AslDoError(); yyclearin;}
;

```

#### GpioIntTerm

```

: PARSEOP_GPIO_INT
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_GPIO_INT);}
    InterruptTypeKeyword        /* 04: InterruptType */
    ',' InterruptLevel          /* 06: InterruptLevel */
    OptionalShareType           /* 07: SharedType */
    ',' PinConfigByte           /* 09: PinConfig */
    OptionalWordConstExpr       /* 10: DebounceTimeout */
    ',' StringData              /* 12: ResourceSource */
    OptionalByteConstExpr       /* 13: ResourceSourceIndex */
    OptionalResourceType        /* 14: ResourceType */
    OptionalNameString          /* 15: DescriptorName */
    OptionalBuffer_Last         /* 16: VendorData */
    PARSEOP_CLOSE_PAREN '{'
        DWordConstExpr
    '}'    {$$ = TrLinkOpChildren ($<n>3,11,
                                $4,$6,$7,$9,$10,$12,$13,$14,$15,$16,$19);}
| PARSEOP_GPIO_INT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN    {$$ = AslDoError(); yyclearin;}
;

```

#### GpioIoTerm

```

: PARSEOP_GPIO_IO
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_GPIO_IO);}
    OptionalShareType_First     /* 04: SharedType */
    ',' PinConfigByte           /* 06: PinConfig */
    OptionalWordConstExpr       /* 07: DebounceTimeout */
    OptionalWordConstExpr       /* 08: DriveStrength */

```



```

OptionalIoRestriction    /* 09: IoRestriction */
',' StringData           /* 11: ResourceSource */
OptionalByteConstExpr    /* 12: ResourceSourceIndex */
OptionalResourceType      /* 13: ResourceType */
OptionalNameString        /* 14: DescriptorName */
OptionalBuffer_Last       /* 15: VendorData */
PARSEOP_CLOSE_PAREN '{'
    DWordList '}'        {$$ = TrLinkOpChildren ($<n>3,11,
                                $4,$6,$7,$8,$9,$11,$12,$13,$14,$15,$18);}
| PARSEOP_GPIO_IO
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN          {$$ = AslDoError(); yyclearin;}
;

```

#### I2cSerialBusTerm

```

: PARSEOP_I2C_SERIALBUS
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_I2C_SERIALBUS);}
    WordConstExpr           /* 04: SlaveAddress */
    OptionalSlaveMode        /* 05: SlaveMode */
    ',' DWordConstExpr       /* 07: ConnectionSpeed */
    OptionalAddressingMode    /* 08: AddressingMode */
    ',' StringData           /* 10: ResourceSource */
    OptionalByteConstExpr    /* 11: ResourceSourceIndex */
    OptionalResourceType      /* 12: ResourceType */
    OptionalNameString        /* 13: DescriptorName */
    OptionalBuffer_Last       /* 14: VendorData */
    PARSEOP_CLOSE_PAREN
    {$$ = TrLinkOpChildren ($<n>3,10,
                                $4,$5,$7,$8,$10,$11,$12,$13,
                                TrCreateLeafOp (PARSEOP_DEFAULT_ARG),$14);}
| PARSEOP_I2C_SERIALBUS
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### I2cSerialBusTermV2

```

: PARSEOP_I2C_SERIALBUS_V2
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_I2C_SERIALBUS_V2);}
    WordConstExpr           /* 04: SlaveAddress */
    OptionalSlaveMode        /* 05: SlaveMode */
    ',' DWordConstExpr       /* 07: ConnectionSpeed */
    OptionalAddressingMode    /* 08: AddressingMode */
    ',' StringData           /* 10: ResourceSource */
    OptionalByteConstExpr    /* 11: ResourceSourceIndex */
    OptionalResourceType      /* 12: ResourceType */
    OptionalNameString        /* 13: DescriptorName */
    OptionalShareType         /* 14: Share */

```



```
OptionalBuffer_Last      /* 15: VendorData */
    PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,10,
                                $4,$5,$7,$8,$10,$11,$12,$13,$14,$15);}
| PARSEOP_I2C_SERIALBUS_V2
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

InterruptTerm

```
: PARSEOP_INTERRUPT
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_INTERRUPT);}
    OptionalResourceType_First
    ',' InterruptTypeKeyword
    ',' InterruptLevel
    OptionalShareType
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN '{'
        DWordList '}'      {$$ = TrLinkOpChildren ($<n>3,8,
                                $4,$6,$8,$9,$10,$11,$12,$15);}
| PARSEOP_INTERRUPT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

IOTerm

```
: PARSEOP_IO
    PARSEOP_OPEN_PAREN
        {$<n>$ = TrCreateLeafOp (PARSEOP_IO);}
    IODecodeKeyword
    ',' WordConstExpr
    ',' WordConstExpr
    ',' ByteConstExpr
    ',' ByteConstExpr
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$8,$10,$12,$13);}
| PARSEOP_IO
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

IRQNoFlagsTerm

```
: PARSEOP_IRQNOFLAGS
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_IRQNOFLAGS);}
    OptionalNameString_First
    PARSEOP_CLOSE_PAREN '{'
        ByteList '}'      {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
;
```



```
| PARSEOP_IRQNOFLAGS
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### IRQTerm

```
: PARSEOP_IRQ
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_IRQ);}
  InterruptTypeKeyword
  ',' InterruptLevel
  OptionalShareType
  OptionalNameString_Last
  PARSEOP_CLOSE_PAREN '{'
    ByteList ','          {$$ = TrLinkOpChildren ($<n>3,5,$4,$6,$7,$8,$11);}
| PARSEOP_IRQ
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### Memory24Term

```
: PARSEOP_MEMORY24
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_MEMORY24);}
  OptionalReadWriteKeyword
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  OptionalNameString_Last
  PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$8,$10,$12,$13);}
| PARSEOP_MEMORY24
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### Memory32FixedTerm

```
: PARSEOP_MEMORY32FIXED
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_MEMORY32FIXED);}
  OptionalReadWriteKeyword
  ',' DWordConstExpr
  ',' DWordConstExpr
  OptionalNameString_Last
  PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,4,$4,$6,$8,$9);}
| PARSEOP_MEMORY32FIXED
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;
```

#### Memory32Term



```

: PARSEOP_MEMORY32
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_MEMORY32);}
  OptionalReadWriteKeyword
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  ',' DWordConstExpr
  OptionalNameString_Last
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$8,$10,$12,$13);}
| PARSEOP_MEMORY32
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

```

#### PinConfigTerm

```

: PARSEOP_PINCONFIG
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_PINCONFIG);}
  OptionalShareType_First /* 04: SharedType */
  ',' ByteConstExpr       /* 06: PinConfigType */
  ','
DWordConstExpr           /* 08: PinConfigValue */
  ',' StringData          /* 10: ResourceSource */
  OptionalByteConstExpr   /* 11: ResourceSourceIndex */
  OptionalResourceType     /* 12: ResourceType */
  OptionalNameString      /* 13: DescriptorName */
  OptionalBuffer_Last     /* 14: VendorData */
  PARSEOP_CLOSE_PAREN '{'
    DWordList '}'         {$$ = TrLinkOpChildren ($<n>3,9,
      $4,$6,$8,$10,$11,$12,$13,$14,$17);}
| PARSEOP_PINCONFIG
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

```

#### PinFunctionTerm

```

: PARSEOP_PINFUNCTION
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_PINFUNCTION);}
  OptionalShareType_First /* 04: SharedType */
  ',' PinConfigByte       /* 06: PinConfig */
  ',' WordConstExpr       /* 08: FunctionNumber */
  ',' StringData          /* 10: ResourceSource
*/
  OptionalByteConstExpr   /* 11: ResourceSourceIndex */
  OptionalResourceType     /* 12: ResourceType */
  OptionalNameString      /* 13: DescriptorName */
  OptionalBuffer_Last     /* 14: VendorData */
  PARSEOP_CLOSE_PAREN '{'
    DWordList '}'         {$$ = TrLinkOpChildren ($<n>3,9,

```



```

        $4,$6,$8,$10,$11,$12,$13,$14,$17);}
| PARSEOP_PINFUNCTION
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

PinGroupTerm
: PARSEOP_PINGROUP
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_PINGROUP);}
  StringData              /* 04: ResourceLabel */
  OptionalProducerResourceType /* 05: ResourceType */
  OptionalNameString      /* 06: DescriptorName */
  OptionalBuffer_Last     /* 07: VendorData */
  PARSEOP_CLOSE_PAREN '{'
    DWordList '}'        {$$ = TrLinkOpChildren
($<n>3,5,$4,$5,$6,$7,$10);}
| PARSEOP_PINGROUP
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

PinGroupConfigTerm
: PARSEOP_PINGROUPCONFIG
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_PINGROUPCONFIG);}
  OptionalShareType_First /* 04: SharedType */
  ',' ByteConstExpr      /* 06: PinConfigType */
  ',' DWordConstExpr     /* 08: PinConfigValue */
  ',' StringData         /* 10: ResourceSource */
  OptionalByteConstExpr  /* 11: ResourceSourceIndex */
  ',' StringData         /* 13: ResourceSourceLabel */
  OptionalResourceType   /* 14: ResourceType */
  OptionalNameString     /* 15: DescriptorName */
  OptionalBuffer_Last    /* 16: VendorData */
  PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,9,
        $4,$6,$8,$10,$11,$13,$14,$15,$16);}
| PARSEOP_PINGROUPCONFIG
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

PinGroupFunctionTerm
: PARSEOP_PINGROUPFUNCTION
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_PINGROUPFUNCTION);}
  OptionalShareType_First /* 04: SharedType */
  ',' WordConstExpr      /* 06: FunctionNumber */
  ',' StringData         /* 08: ResourceSource */
  OptionalByteConstExpr  /* 09: ResourceSourceIndex */
  ',' StringData         /* 11: ResourceSourceLabel */

```



```

OptionalResourceType    /* 12: ResourceType */
OptionalNameString      /* 13: DescriptorName */
OptionalBuffer_Last     /* 14: VendorData */
PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,8,
                        $4,$6,$8,$9,$11,$12,$13,$14);}
| PARSEOP_PINGROUPFUNCTION
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError();
yyclearin;}
;

```

#### QWordIOTerm

```

: PARSEOP_QWORDIO
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_QWORDIO);}
  OptionalResourceType_First
  OptionalMinType
  OptionalMaxType
  OptionalDecodeType
  OptionalRangeType
  ',' QWordConstExpr
  ',' QWordConstExpr
  ',' QWordConstExpr
  ',' QWordConstExpr
  ',' QWordConstExpr
  OptionalByteConstExpr
  OptionalStringData
  OptionalNameString
  OptionalType
  OptionalTranslationType_Last
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,15,
                        $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$19,$20,$21,$22,$23);}
| PARSEOP_QWORDIO
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### QWordMemoryTerm

```

: PARSEOP_QWORDMEMORY
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_QWORDMEMORY);}
  OptionalResourceType_First
  OptionalDecodeType
  OptionalMinType
  OptionalMaxType
  OptionalMemType
  ',' OptionalReadWriteKeyword
  ',' QWordConstExpr
  ',' QWordConstExpr
  ',' QWordConstExpr

```



```

    ',' QWordConstExpr
    ',' QWordConstExpr
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString
    OptionalAddressRange
    OptionalType_Last
    PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,16,
                                $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$20,$21,$22,$23,$24,$25);}
| PARSEOP_QWORDMEMORY
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

QWordSpaceTerm

```

: PARSEOP_QWORDSPACE
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_QWORDSPACE);}
    ByteConstExpr           {UtCheckIntegerRange ($4, 0xC0, 0xFF);}
    OptionalResourceType
    OptionalDecodeType
    OptionalMinType

```

OptionalMaxType

```

    ',' ByteConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,14,
                                $4,$6,$7,$8,$9,$11,$13,$15,$17,$19,$21,$22,$23,$24);}
| PARSEOP_QWORDSPACE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

RegisterTerm

```

: PARSEOP_REGISTER
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_REGISTER);}
    AddressSpaceKeyword
    ',' ByteConstExpr
    ',' ByteConstExpr
    ',' QWordConstExpr
    OptionalAccessSize
    OptionalNameString_Last

```



```

    PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$8,$10,$11,$12);}
| PARSEOP_REGISTER
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN
{$$ = AslDoError(); yyclearin;}
;

```

#### SpiSerialBusTerm

```

: PARSEOP_SPI_SERIALBUS
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SPI_SERIALBUS);}
    WordConstExpr           /* 04: DeviceSelection */
    OptionalDevicePolarity  /* 05: DevicePolarity */
    OptionalWireMode        /* 06: WireMode */
    ',' ByteConstExpr       /* 08: DataBitLength */
    OptionalSlaveMode        /* 09: SlaveMode */
    ',' DWordConstExpr      /* 11: ConnectionSpeed */
    ',' ClockPolarityKeyword /* 13: ClockPolarity */
    ',' ClockPhaseKeyword   /* 15: ClockPhase */
    ',' StringData          /* 17: ResourceSource */
    OptionalByteConstExpr    /* 18: ResourceSourceIndex */
    OptionalResourceType     /* 19: ResourceType */
    OptionalNameString       /* 20: DescriptorName */
    OptionalBuffer_Last      /* 21: VendorData */
    PARSEOP_CLOSE_PAREN
{$$ = TrLinkOpChildren ($<n>3,14,
                        $4,$5,$6,$8,$9,$11,$13,$15,$17,$18,$19,$20,
                        TrCreateLeafOp (PARSEOP_DEFAULT_ARG),$21);}
| PARSEOP_SPI_SERIALBUS
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN {$$ = AslDoError(); yyclearin;}
;

```

#### SpiSerialBusTermV2

```

: PARSEOP_SPI_SERIALBUS_V2
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_SPI_SERIALBUS_V2);}
    WordConstExpr           /* 04: DeviceSelection */
    OptionalDevicePolarity  /* 05: DevicePolarity */
    OptionalWireMode        /* 06: WireMode */
    ',' ByteConstExpr       /* 08: DataBitLength */
    OptionalSlaveMode        /* 09: SlaveMode */
    ',' DWordConstExpr      /* 11: ConnectionSpeed */
    ',' ClockPolarityKeyword /* 13: ClockPolarity */
    ',' ClockPhaseKeyword   /* 15: ClockPhase */
    ',' StringData          /* 17: ResourceSource
*/
    OptionalByteConstExpr    /* 18: ResourceSourceIndex */
    OptionalResourceType     /* 19: ResourceType */
    OptionalNameString       /* 20: DescriptorName */

```



```

OptionalShareType      /* 21: Share */
OptionalBuffer_Last    /* 22: VendorData */
PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,14,
                        $4,$5,$6,$8,$9,$11,$13,$15,$17,$18,$19,$20,$21,$22);}
| PARSEOP_SPI_SERIALBUS_V2
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

StartDependentFnNoPriTerm
: PARSEOP_STARTDEPENDENTFN_NOPRI
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_STARTDEPENDENTFN_NOPRI);}
  PARSEOP_CLOSE_PAREN '{'
  ResourceMacroList '}'    {$$ = TrLinkOpChildren ($<n>3,1,$6);}
| PARSEOP_STARTDEPENDENTFN_NOPRI
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}

;

StartDependentFnTerm
: PARSEOP_STARTDEPENDENTFN
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_STARTDEPENDENTFN);}
  ByteConstExpr
  ',' ByteConstExpr
  PARSEOP_CLOSE_PAREN '{'
  ResourceMacroList '}'    {$$ = TrLinkOpChildren ($<n>3,3,$4,$6,$9);}
| PARSEOP_STARTDEPENDENTFN
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}

;

UartSerialBusTerm
: PARSEOP_UART_SERIALBUS
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_UART_SERIALBUS);}
  DWordConstExpr          /* 04: ConnectionSpeed */
  OptionalBitsPerByte      /* 05: BitsPerByte */
  OptionalStopBits         /* 06: StopBits */
  ',' ByteConstExpr        /* 08: LinesInUse */
  OptionalEndian           /* 09: Endianness */
  OptionalParityType        /* 10: Parity */
  OptionalFlowControl       /* 11: FlowControl */
  ',' WordConstExpr
  /* 13: Rx BufferSize */
  ',' WordConstExpr        /* 15: Tx BufferSize */
  ',' StringData           /* 17: ResourceSource */
  OptionalByteConstExpr    /* 18: ResourceSourceIndex */
  OptionalResourceType      /* 19: ResourceType */

```



```

OptionalNameString      /* 20: DescriptorName */
OptionalBuffer_Last     /* 21: VendorData */
PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,15,
                                $4,$5,$6,$8,$9,$10,$11,$13,$15,$17,$18,$19,$20,
                                TrCreateLeafOp (PARSEOP_DEFAULT_ARG),$21);}
| PARSEOP_UART_SERIALBUS
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### UartSerialBusTermV2

```

: PARSEOP_UART_SERIALBUS_V2
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_UART_SERIALBUS_V2);}
  DWordConstExpr          /* 04: ConnectionSpeed */
  OptionalBitsPerByte
    /* 05: BitsPerByte */
  OptionalStopBits        /* 06: StopBits */
  ',' ByteConstExpr       /* 08: LinesInUse */
  OptionalEndian          /* 09: Endianness */
  OptionalParityType       /* 10: Parity */
  OptionalFlowControl      /* 11: FlowControl */
  ',' WordConstExpr       /* 13: Rx BufferSize */
  ',' WordConstExpr       /* 15: Tx BufferSize */
  ',' StringData          /* 17: ResourceSource */
  OptionalByteConstExpr    /* 18: ResourceSourceIndex */
  OptionalResourceType     /* 19: ResourceType */
  OptionalNameString       /* 20: DescriptorName */
  OptionalShareType        /* 21: Share */
  OptionalBuffer_Last      /* 22: VendorData */
  PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,15,
                                $4,$5,$6,$8,$9,$10,$11,$13,$15,$17,$18,$19,$20,$21,$22);}
| PARSEOP_UART_SERIALBUS_V2
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### VendorLongTerm

```

: PARSEOP_VENDORLONG
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_VENDORLONG);}
  OptionalNameString_First
  PARSEOP_CLOSE_PAREN '{'
    ByteList '}'          {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
| PARSEOP_VENDORLONG
  PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### VendorShortTerm



```

: PARSEOP_VENDORSHORT
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_VENDORSHORT);}
  OptionalNameString_First
  PARSEOP_CLOSE_PAREN '{'
    ByteList '}'          {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
| PARSEOP_VENDORSHORT
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### WordBusNumberTerm

```

: PARSEOP_WORDBUSNUMBER
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_WORDBUSNUMBER);}
  OptionalResourceType_First
  OptionalMinType
  OptionalMaxType
  OptionalDecodeType
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  OptionalByteConstExpr
  OptionalStringData
  OptionalNameString_Last
  PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,12,
    $4,$5,$6,$7,$9,$11,$13,$15,$17,$18,$19,$20);}
| PARSEOP_WORDBUSNUMBER
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

#### WordIOTerm

```

: PARSEOP_WORDIO
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_WORDIO);}
  OptionalResourceType_First
  OptionalMinType
  OptionalMaxType
  OptionalDecodeType
  OptionalRangeType
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  OptionalByteConstExpr
  OptionalStringData
  OptionalNameString

```



```

OptionalType
OptionalTranslationType_Last
PARSEOP_CLOSE_PAREN    {$$ = TrLinkOpChildren ($<n>3,15,
                        $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$19,$20,$21,$22,$23);}
| PARSEOP_WORDIO
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

WordSpaceTerm
: PARSEOP_WORDSPACE
  PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_WORDSPACE);}
  ByteConstExpr           {UtCheckIntegerRange ($4, 0xC0, 0xFF);}
  OptionalResourceType
  OptionalDecodeType
  OptionalMinType
  OptionalMaxType
  ',' ByteConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  ',' WordConstExpr
  OptionalByteConstExpr
  OptionalStringData
  OptionalNameString_Last
  PARSEOP_CLOSE_PAREN
    {$$ = TrLinkOpChildren ($<n>3,14,
                          $4,$6,$7,$8,$9,$11,$13,$15,$17,$19,$21,$22,$23,$24);}
| PARSEOP_WORDSPACE
  PARSEOP_OPEN_PAREN
  error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
;

```

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslresources.y

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- \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/executer/exoparg6.c
- \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/executer/exoparg3.c
- \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/executer/exconfig.c
- \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/executer/exmisc.c
- \* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/executer/exconcat.c

No license file was found, but licenses were detected in source scan.

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05 January 2021. Summary of changes for version 20210105:

This release is available at <https://acpica.org/downloads>

1) ACPICA kernel-resident subsystem:

Updated all copyrights to 2021. This affects all ACPICA source code modules.

2) iASL Compiler/Disassembler and ACPICA tools:

ASL test suite (ASLTS): Updated all copyrights to 2021.

Tools and utilities: Updated all signon copyrights to 2021.

iASL Table Compiler: Removed support for obsolete ACPI tables: VRTC, MTMR. Al Stone.

-----  
17 December 2020. Summary of changes for version 20201217:

This release is available at <https://acpica.org/downloads>

1) ACPICA kernel-resident subsystem:

Note: The implementation of ACPI 6.4 is underway, and is expected to be mostly finished next month, when ACPI 6.4 is released.



From qzed:- fixed-ae-class-macros. Fix exception code class checks. Added several new macros, such as `ACPI_CNTL_EXCEPTION(Status)` in order to enable this.

AcpiExec/iASL/AcpiHelp: Added a few changes for support of GCC 10.2.0. These included a few casts, as well as a null pointer check.

Fix -Wfallthrough: GCC 7.1 gained -Wimplicit-fallthrough to warn on implicit fallthrough, as well as `__attribute__((__fallthrough__))` and comments to explicitly denote that cases of fallthrough were intentional. Clang also supports this warning and statement attribute, but not the comment form. Added a new macro, `ACPI_FALLTHROUGH` to support this feature of GCC. With assistance from @nickdesaulniers.

## 2) iASL Compiler/Disassembler and ACPICA tools:

Added improvement to method call analysis by saving the return type and relaxing certain cases of type checking.

iASL Table Compiler: Improved info messages. Added a message to the -T option for when the default template (DSDT) is used.

Also added a note for when multiple SSDTs are created with a DSDT that the SSDTs are created in the same file as the DSDT.

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13 November 2020. Summary of changes for version 20201113:

This release is available at <https://acpica.org/downloads>

## 1) ACPICA kernel-resident subsystem:

Interpreter: fixed a memory leak by using use existing buffer in `_HID` repair. There was a memory leak that occurred when a `_CID` object is defined as a package containing string objects. When `_CID` is checked for any possible repairs, it calls a helper function to repair `_HID` (because `_CID` basically contains multiple `_HID` entries). The `_HID` repair function assumes that string objects are standalone objects that are not contained inside of any packages. The `_HID` repair function replaced the string object with a brand new object and attempted to delete the old object by decrementing the reference count of the old object. Strings inside of packages have a reference count of 2 so the `_HID` repair function leaves this object in a dangling state



and causes a memory leak. Instead of allocating a brand new object and removing the old object, use the existing object when repairing the `_HID` object.

Added function trace macros to improve namespace debugging. The namespace repair mechanism does not have function tracing macros. Add several trace macros to improve debuggability.

Handle "orphan" `_REG` methods for GPIO OpRegions. Before this change `AcpiEvExecuteRegMethods()` had special handling to handle "orphan" (no matching OpRegion declared) `_REG` methods for EC nodes. On Intel Cherry Trail devices there are 2 possible ACPI OpRegions for accessing GPIOs. The standard `GeneralPurposeIo` OpRegion and the Cherry Trail - specific `UserDefined 0x9X` OpRegions. Having 2 different types of OpRegions leads to potential issues with checks for OpRegion availability, or in other words checks if `_REG` has been called for the OpRegion which the ACPI code wants to use. Except for the "orphan" EC handling, ACPICA core does not call `_REG`

on an ACPI node which does not define an OpRegion matching the type being registered; and the reference design DSDT, from which most Cherry Trail DSDTs are derived, does not define `GeneralPurposeIo`, nor `UserDefined(0x93)` OpRegions for the GPO2 (UID 3) device, because no pins were assigned ACPI controlled functions in the reference design. Together this leads to the perfect storm, at least on the Cherry Trail based Medion Akayo E1239T. This design does use a GPO2 pin from its ACPI code and has added the Cherry Trail specific `UserDefined(0x93)` opregion to its GPO2 ACPI node to access this pin. But it uses a "has `_REG` been called" availability check for the standard `GeneralPurposeIo` OpRegion. This clearly is a bug in the DSDT, but this does work under Windows. This issue leads to the intel vbtn driver reporting the device always being in tablet-mode at boot, even if it is in laptop mode. Which in turn causes userspace to ignore touchpad events. So in other words, this issue causes the touchpad to not work at boot. This change fixes this by extending the "orphan" `_REG` method handling to also apply to GPIO address-space handlers.

## 2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Added more info to namespace dump file (`-ln` option). In a separate section of the dump file (after the main namespace dump), emit the full pathname for each namespace node, its type, and the ASL filename and line number where it is declared.

AcpiHelp: Added an option to display/decode iASL exceptions. Option is: `-x [Hex Value]` where "Hex Value" is the iASL exception code. If Hex Value is omitted, all iASL exceptions are displayed.



iASL: Use StringLiteral instead of StringData for some ASL macros. The use of the stringData rule allows for some "string" oriented opcodes (Such as ToString, ToHexString, etc.) None of which make sense with the macros in question. This change modifies the StringData part of the rule for these macros to a simple string literal - thus

disallowing the use  
of ToString, ToHexString, etc.

The following ASL operators (macros) are affected:

EisaId

Fprintf

Printf

ToUuid

Unicode

Note: The MS compiler requires the use of string literals for these operators also.

iASL: Added a remark for an unknown UUID: ASL\_MSG\_UUID\_NOT\_FOUND. Search the list of "known" UUIDs for the input to the ToUUID macro.

Added 5 new UUIDs to the known UUID table. All related to NVDIMM and the NFIT table.

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25 September 2020. Summary of changes for version 20200925:

This release is available at <https://acpica.org/downloads>

#### 1) ACPICA kernel-resident subsystem:

Preserve memory opregion mappings. The ACPICA's strategy with respect to the handling of memory mappings associated with memory operation regions is to avoid mapping the entire region at once which may be problematic at least in principle (for example, it may lead to conflicts with overlapping mappings having different attributes created by drivers). It

may also be wasteful, because memory opregions on some systems take up vastchunks of address space while the fields in those regions actually accessed by AML are sparsely distributed.

For this reason, a one-page "window" is mapped for a given opregion on the first memory access through it and if that "window" does not cover an address range accessed through that opregion subsequently, it is unmapped and a new "window" is mapped to replace it. Next, if the new "window" is not sufficient to access memory through the opregion in question in the



future, it will be replaced with yet another "window" and so on. That may lead to a suboptimal sequence of memory mapping and unmapping operations, for example if two fields in one opregion separated from each other by a sufficiently wide chunk of unused address space are accessed in an alternating pattern.

Added support for 64 bit risc-v compilation. Useful for acpica tools and incorporating ACPICA into the Firmware

Test Suite. Colin Ian King

<colin.king@canonical.com>.

Added support for SMBus predefined names (from SMBus Control Method Interface Specification, Version 1.0, December 10, 1999. New predefined names:

\_SBA

\_SBI

\_SBR

\_SBT

\_SBW

AML Disassembler: Added a new command, "All <NameSeg>". This command will evaluate all objects in the current namespace whose NameString contains the input NameSeg as the last element of the NameString. Useful for debugging.

## 2) iASL Compiler/Disassembler and ACPICA tools:

iASL: fixed a crash that occurred when predefined objects return packages with lengths that exceed the initializer list.

iASL: added more detail to external resolution error message when compiling multiple definition blocks.

iASL: added a remark for an attempt to create a nameseg or namestring containing lower-case letters. This should prevent declaring multiple namesegs or namestrings in an attempt to refer to different objects (with different cases), but actually refer to the same object(s).

iASL: improve alias analysis by saving object type. If the alias is a method type, the parameter count is also recorded.

AcpiExec: Increase the default loop timeout value. Was 1 second, is now 10 seconds. Prevents unnecessary timeouts when executing control methods from the command line.

AcpiHelp/disassembler: Added a bunch of "known" UUIDs to the internal



list. Includes:

- Memory Device
- Generic Buttons Device
- NVDIMM Root Device
- Control Method Battery
- Device Graphs for \_DSD method
- Hierarchical Data Extension
- ....ARM CoreSight Graph

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17 July 2020. Summary of changes for version 20200717:

This release is available at <https://acpica.org/downloads>

#### 1) ACPICA kernel-resident subsystem:

Do not increment OperationRegion reference counts for field units. Recent server firmware has revealed that this reference count can overflow on large servers that declare many field units (thousands) under the same

OperationRegion. This occurs because each field unit declaration will add a reference count to the source OperationRegion. This release solves the reference count overflow for OperationRegion objects by preventing fieldUnits from incrementing their parent OperationRegion's reference count.

Replaced one-element arrays with flexible-arrays, which were introduced in C99.

Restored the readme file containing the directions for generation of ACPICA from source on MSVC 2017. Updated the file for MSVC 2017. File is located at: generate/msvc2017/readme.txt

#### 2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Fixed a regression found in version 20200214. Prevent iASL from emitting an extra byte of garbage data when control methods declared a single parameter type without using braces. This extra byte is known to cause a blue screen on the Windows AML interpreter.

iASL: Made a change to allow external declarations to specify the type of a named object even when some name segments are not defined.

This change allows the following ASL code to compile (When DEV0 is not defined or not defined yet):



External (\\_SB.DEV0.OBJ1, IntObj)

External (\\_SB.DEV0, DeviceObj)

iASL: Fixed a problem where method names in "Alias ()" statement could be misinterpreted. They are now interpreted correctly as method invocations.

iASL: capture a method parameter count (Within the Method info segment, as well as the argument node) when using parameter type lists.

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28 May 2020. Summary of changes for version 20200528:

1) ACPICA kernel-resident subsystem:

Removed old/obsolete Visual Studio files which were used to build the Windows versions of the ACPICA tools. Since we have moved to Visual Studio 2017, we are no longer supporting Visual Studio 2006 and 2009 project files. The new subdirectory and solution file are located at:

acpica/generate/msvc2017/AcpiComponents.sln

2) iASL Compiler/Disassembler  
and ACPICA tools:

iASL: added support for a new OperationRegion Address Space (subtype): PlatformRtMechanism. Support for this new keyword is being released for early prototyping. It will appear in the next release of the ACPI specification.

iASL: do not optimize the NameString parameter of the CondRefOf operator. In the previous iASL compiler release, the NameString parameter of the CondRefOf was optimized. There is evidence that some implementations of the AML interpreter do not perform the recursive search-to-parent search during the execution of the CondRefOf operator. Therefore, the CondRefOf operator behaves differently when the NameString parameter is a single name segment (a NameSeg) as opposed to a full NamePath (starting at the root scope) or a NameString containing parent prefixes.

iASL: Prevent an inadvertent remark message. This change prevents a remark if within a control method the following exist:

- 1) An Operation Region is defined, and
- 2) A Field operator



is defined that refers to the region.

This happens because at the top level, the Field operator does not actually create a new named object, it simply references the operation region.

Removed support for the acpinames utility. The acpinames was a simple utility used to populate and display the ACPI namespace without executing any AML code. However, ACPICA now supports executable opcodes outside of control methods. This means that executable AML opcodes such as If and Store opcodes need to be executed during table load. Therefore, acpinames would need to be updated to match the same behavior as the acpiexec utility and since acpiexec can already dump the entire namespace (via the 'namespace' command), we no longer have the need to maintain acpinames.

In order to dump the contents of the ACPI namespace using acpiexec, execute the following command from the command line:

```
acpiexec -b "n" [aml files]
```

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30 April 2020. Summary  
of changes for version 20200430:

1) ACPICA kernel-resident subsystem:

Cleaned up the coding style of a couple of global variables (AcpiGbl\_NextCmdNum and AcpiProtocolLengths) caught by static analyzers. AcpiProtocolLengths was made static, and the definition of AcpiGbl\_NextCmdNum was moved to acglobal.h.

2) iASL Compiler/Disassembler and ACPICA tools:

iASL DataTable Compiler: Fixed a segfault on errors that aren't directly associated with a field.

Disassembler: has been made more resilient so that it will continue to parse AML even if the AML generates ACPI namespace errors. This enables iASL to disassemble some AML that may have been compiled using older versions of iASL that no longer compile with newer versions of iASL.

iASL: Fixed the required parameters for \_NIH and \_NIG. Previously, there was a mixup where \_NIG required one parameter and \_NIH required zero parameters. This change swaps these parameter requirements. Now it is required that \_NIH must be called



with one parameter and \_NIG requires zero parameters.

iASL: Allow use of undefined externals as long as they are protected by an if (CondRefOf (...)) block when compiling multiple definition blocks.

iASL: Fixed the type override behavior of named objects that are declared as External. External declarations will no longer override the type of the actual definition if it already exists.

AcpiNames: Added setargv.obj to the MSVC 2017 link sequence to enable command line wildcard support on Windows. Note: the AcpiNames utility is essentially redundant with the AcpiExec utility (using the "namespace" command) and is therefore deprecated. It will be removed in future releases of ACPICA.

Disassembler: ignore AE\_ALREADY\_EXISTS status when parsing create\* operators. The disassembler is intended to emit existing ASL code as-is. Therefore, error messages emitted during disassembly should be ignored or handled in a way such that the disassembler can continue to parse the AML. This

change ignores AE\_ALREADY\_EXISTS errors during the deferred Op parsing for create operators in order to complete parsing ASL termlists.

iASL DataTable Compiler: IVRS table: fix potentially uninitialized variable warning. Some compilers catch potential uninitialized variables. This is done by examining branches of if/else statements. This change replaces an "else if" with an "else" to fix the uninitialized variable warning.

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26 March 2020. Summary of changes for version 20200326:

#### 1) ACPICA kernel-resident subsystem:

Performed a code clean-up to prevent build errors on early versions of GCC-10.

Added the NHLT table signature. iASL data table compiler/disassembler support for this table is coming soon.

#### 2) iASL Compiler/Disassembler and ACPICA tools:

AcpiExec: Fixed several problems with the namespace initialization file (-fi<filename> option). Includes fixes to prevent AE\_ALREADY\_EXISTS



errors, several seg faults, and enhancements to line parsing within the init file. In addition, each object found in the init file and its new value is displayed, as well as any such entries that do not have a corresponding name in the namespace. For reference, the syntax for the various supported data types are presented below:

```
PCHG 0x777788889999BBBB // Integer
\DEV1.STR1 "XYZ" // String
BUF1 (88 99 AA) // Buffer
PKG1 [0x1111 0x2222] // Package
\BF1 0x7980 // BufferField
RCRV 0x0123456789ABCDEF // Field Unit
```

iASL: Added a custom iASL macro `__EXPECT__(iASL-Error-Code)`. This macro can be used anywhere in a given ASL file to configure iASL to expect an iASL compiler error code on the line where this macro was placed. If the error code does not exist, an error is generated. This is intended to be used for ACPICA's ASL test suite, but can be used by ASL developers as well.

iASL: table compiler: Implemented IVRS IVHD type 11h parsing. The AMD IVRS table parsing supported only IVHD type 10h structures.

Parsing an IVHD type 11h caused the iasl to report unknown subtable type. Add necessary structure definition for IVHD type 11h and apply correct parsing method based on subtable type. Micha? ?ygowski.

iASL: table compiler: Fixed IVRS table IVHD type 10h reserved field name According to AMD IOMMU Specification Revision 3.05 the reserved field should be IOMMU Feature Reporting. Change the name of the field to the correct one. Micha? ?ygowski.

acpiexec: removed redeclaration of `AcpiGbl_DbOpt_NoRegionSupport`. Patch based on suggestions by David Seifert and Benjamin Berg.

iASL: table compiler: removed an unused variable (`DtCompilerParserResult`) causing linking errors. Patch based on suggestions by David Seifert and Benjamin Berg.

iASL: table compiler: make `LexBuffer` static to avoid linking errors in newer compilers. Patch based on suggestions by David Seifert and Benjamin Berg.

iASL: fixed type matching between External and Named objects. External object types can only be expressed with ACPI object type values that are defined in the ACPI spec. However, iASL uses ACPI object type values that are local to ACPICA in addition to the values defined in the ACPI spec.



This change implements type matching to map some object type values specific to ACPICA to ones that are defined in the ACPI spec.

iASL: Dropped the type mismatch compiler error that can arise from External declarations to a warning. This warning can occur when there is a type difference between the external declaration and the actual object declaration (when compiling multiple files/modules simultaneously).

iASL: removed an incorrect error message regarding externals. This change removes an incorrect error that is emitted when a duplicate external declaration does not contain a type that opens a scope. This is incorrect because the duplicate external with conflicting types are already caught by iASL and it doesn't make any sense to enforce what this conflicting type should be.

AcpiXtract:

fix AX\_IS\_TABLE\_BLOCK\_HEADER macro. This macro needs to be surrounded by parens. Otherwise, a logical statement that applies a logical not operator to this macro could result in a computation that applies the operator to the left side of the logical and but not the right. Reported-by: John Levon <john.levon@joyent.com>

Fixed a problem with the local version of sprint(): On 32-bit, the provided sprintf() is non-functional: with a size of ACPI\_UINT32\_MAX, String + Size will wrap, meaning End < Start, and AcpiUtBoundStringOutput() will never output anything as a result. The symptom seen of this was acpixtract failing to output anything -- with a custom build that included utprint.c. Signed-off-by: John Levon <john.levon@joyent.com>

iASL: Changed the "PlatformCommChannel" ASL keyword to "PCC", as per the ACPI specification.

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14 February 2020. Summary of changes for version 20200214:

#### 1) ACPICA kernel-resident subsystem:

##### Enable

sleep button on ACPI legacy wake: Hibernation (S4) is triggered in a guest when it receives a sleep trigger from the hypervisor. When the guest resumes from this power state, it does not see the SleepEnabled bit. In other words, the sleepHibernation (S4) is triggered in a guest when it receives a sleep trigger from the hypervisor. When the guest resumes from this power state, it does not see the SleepEnabled bit. In other words, the sleep button is not enabled on waking from an S4 state.



This causes subsequent invocation of sleep state to fail since the guest.button is not enabled on waking from an S4 state. This causes subsequent invocation of sleep state to fail in the guest. Fix this problem by enabling the sleep button in ACPI legacy wake. From Anchal Agarwal <anchalag@amazon.com>.

Implemented a new external interface, AcpiAnyGpeStatusSet (). To be used for checking the status bits of all enabled GPEs in one go. It is needed to distinguish spurious SCIs from genuine ones when deciding whether or not to wake up the system from suspend-to-idle.

Generic Makefiles: replace HOST name with ACPI\_HOST: Some machines may be using HOST in their environment to represent the host name for their machines. Avoid this problem by renaming this variable from HOST to ACPI\_HOST.

MSVC 2017 project files: Enable multiprocessor generation to improve build performance.

Added a macro to get the byte width of a Generic Address structure. New ACPI\_ACCESS\_BYTE\_WIDTH is in addition to the existing ACPI\_ACCESS\_BIT\_WIDTH. From Mika Westerberg.

## 2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Implemented full support for the (optional, rarely used) ReturnType and ParameterTypesList for the Method, Function, and External operators. For Method declarations, the number of individual ParameterTypes must match the declaration of the number of arguments (NumArgs). This also Fixes a problem with the External operator where extra/extraneous bytes were emitted

in the AML code if the optional ReturnType/ParameterTypes were specified for a MethodObj declaration.

New error message:

1) Method NumArgs count does not match length of ParameterTypes list

iASL: Implemented detection of type mismatches between External declarations and named object declarations. Also, detect type mismatches between multiple External declarations of the same Name.

New error messages:

1) Type mismatch between external declaration and actual object declaration detected

2) Type mismatch between multiple external declarations detected

iASL: Implemented new error messages for External operators that specify a ReturnType and/or ParameterTypesList for any object type other than



control methods (MethodObj).

New error messages:

- 1) Return type is only allowed for Externals declared as MethodObj
- 2) Parameter type is only allowed for Externals declared as MethodObj

iASL: Implemented two new remark/warning messages for ASL code that creates named objects from within a control

method. This is very

inefficient since the named object must be created and deleted each time the method is executed.

New messages:

- 1) Creation of named objects within a method is highly inefficient, use globals or method local variables instead (remark)
- 2) Static OperationRegion should be declared outside control method (warning)

iASL: Improved illegal forward reference detection by adding support to detect forward-reference method invocations.

iASL: Detect and issue an error message for NameStrings that contain too many individual NameSegs (>255). This is an AML limitation that is defined in the ACPI specification.

New message:

- 1) NameString contains too many NameSegs (>255)

acpidump: windows: use GetSystemFirmwareTable API for all tables except SSDT. By using this API, acpidump is able to get all tables in the XSDT

iASL: Removed unused parser file and updated msvc2017 project files. Removed the obsolete AslCompiler.y from the repository.

iASL: msvc2017: Fixed macros

in the file dependency list to prevent

unnecessary rebuilds. Replace %(Directory) with %(RelativeDir).

Disassembler: Prevent spilling error messages to the output file. All errors are directed to the console instead. These error messages prevented re-compilation of the resulting disassembled ASL output file (.DSL).

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10 January 2020. Summary of changes for version 20200110:

- 1) ACPICA kernel-resident subsystem:

Updated all copyrights to 2020. This affects all ACPICA source code



modules.

## 2) iASL Compiler/Disassembler and ACPICA tools:

ASL test suite (ASLTS): Updated all copyrights to 2020.

Tools and utilities: Updated all signon copyrights to 2020.

iASL: fix forward reference analysis for field declarations. Fixes forward reference analysis for field declarations by searching the parent scope for the named object when the object is not present in the current scope.

iASL: Improved the error output for ALREADY\_EXISTS errors. Now, the full pathname of the name that already exists is printed.

iASL: Enhance duplicate Case() detection for buffers. Add check for buffers with no initializer list (these buffers will be filled with zeros at runtime.)

-----  
13 December 2019. Summary of changes for version 20191213:

### 1) ACPICA kernel-resident subsystem:

Return a Buffer object for all fields created via the CreateField operator. Previously, an Integer would be returned if the size of the field was less than or equal to the current size of an Integer. Although this goes against the ACPI specification, it provides compatibility with other ACPI implementations. Also updated the ASLTS test suite to reflect this new behavior.

### 2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Implemented detection of (and throw an error for) duplicate values for Case statements within a single Switch statement. Duplicate Integers, Strings, and Buffers are supported.

iASL: Fix error logging issue  
during multiple file compilation --  
Switch to the correct input file during error node creation.

iASL: For duplicate named object creation, now emit an error instead of a warning - since this will cause a runtime error.



AcpiSrc: Add unix line-ending support for non-Windows builds.

iASL: Add an error condition for an attempt to create a NameString with > 255 NameSegs (the max allowable via the AML definition).

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18 October 2019. Summary of changes for version 20191018:

#### 1) ACPICA kernel-resident subsystem:

Debugger: added a new command: ?Fields [address space ID]?. This command dumps the contents of all field units that are defined within the namespace with a particular address space ID.

Modified the external interface AcpiLoadTable() to return a table index. This table index can be used for unloading a table for debugging.

```
ACPI_STATUS
AcpiLoadTable (
    ACPI_TABLE_HEADER    *Table,
    UINT32                *TableIndex))
```

#### Implemented

a new external interface: AcpiUnloadTable() This new function takes a table index as an argument and unloads the table. Useful for debugging only.

```
ACPI_STATUS
AcpiUnloadTable (
    UINT32                TableIndex))
```

Ported the AcpiNames utility to use the new table initialization sequence. The utility was broken before this change. Also, it was required to include most of the AML interpreter into the utility in order to process table initialization (module-level code execution.)

Update for results from running Clang V8.0.1. This fixes all "dead assignment" warnings. There are still several "Dereference of NULL pointer" warnings, but these have been found to be false positive warnings.

#### 2) iASL Compiler/Disassembler and ACPICA tools:

iASL: numerous table compiler changes to ensure that the usage of yacc/bison syntax is POSIX-compliant.



iASL/disassembler: several simple bug fixes in the data table disassembler.

Acpiexec: expanded the initialization file (the -fi option) to initialize strings, buffers, packages, and field units.

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16 August 2019. Summary of changes for version 20190816:

This release is available at <https://acpica.org/downloads>

#### 1) ACPICA kernel-resident subsystem:

Modified the OwnerId mechanism to allow for more Owner Ids. The previous limit was 256 Ids, now it is 4096 Ids. This prevents OWNER\_ID\_LIMIT exceptions on machines with a large number of initialization threads, many CPU cores and nested initialization control methods.

Introduced `acpi_dispatch_gpe()` as a wrapper around `AcpiEvDetectGpe()` for checking if the given GPE (as represented by a GPE device handle and a GPE number) is currently active and dispatching it (if that's the case) outside of interrupt context.

Table load: exit the interpreter before initializing objects within the new table This prevents re-acquiring the interpreter lock when loading tables

Added the "Windows 2019" string to the `_OSI` support (version 1903). Jung-uk Kim

Macros: removed pointer math on a null pointer. Causes warnings on some compilers and/or tools. Changed `ACPI_TO_POINTER` to use `ACPI_CAST_PTR` instead of using arithmetic.

Fully deployed the `ACPI_PRINTF_LIKE` macro. This macro was not being used across all "printf-like" internal functions. Also, cleanup all calls to such functions (both in 32-bit mode and 64-bit mode) now that they are analyzed by the gcc compiler via `ACPI_PRINTF_LIKE`.

#### 2) iASL Compiler/Disassembler and ACPICA tools:

iASL: implemented a new data table compiler flex/bison front-end. This change is internal and is not intended to result in changes to the



compiled code. This new compiler front-end can be invoked using the -tp option for now, until the old mechanism is removed.

ASLTS: Implemented a new data table compiler test suite. This test suite generates all table templates and compile/disassemble/re-compile/binary-compare each file.

iASL: return -1 if  
AML files were not generated due to compiler errors

iASL: added a warning on use of the now-legacy ASL Processor () keyword.

iASL: added an error on \_UID object declaration that returns a String within a Processor () declaration. A \_UID for a processor must be an Integer.

iASL: added a null terminator to name strings that consist only of multiple parent prefixes (^)

iASL: added support to compile both ASL and data table files in a single command.

Updated the tool generation project files that were recently migrated to MSVC 2017 to eliminate all new warnings. The new project files appear in the directory \acpica\generate\msvc2017. This change effectively deprecates the older project files in \acpica\generate\msvc9.

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03 July 2019. Summary of changes for version 20190703:

#### 1) ACPICA kernel-resident subsystem:

Remove legacy module-level support code. There were still some remnants of the legacy module-level code executions. Since we no longer support this option, this is essentially dead code and has been removed from the ACPICA source.

iASL: ensure that \_WAK, \_PTS, \_TTS, and \_Sx are declared only at the root scope. If these named objects are declared outside the root scope, they will not be invoked by any host Operating System.

Clear status of GPEs on first direct enable. ACPI GPEs (other than the EC one) can be enabled in two situations. First, the GPEs with existing \_Lxx and \_Exx methods are enabled implicitly by ACPICA during system initialization. Second, the GPEs without these methods (like GPEs listed



by `_PRW` objects for wakeup devices) need to be enabled directly by the code that is going to use them (e.g. ACPI power management or device drivers).

In the former case, if the status of a given GPE is set to start with, its handler method (either `_Lxx` or `_Exx`) needs to be invoked to take care of the events (possibly) signaled before the GPE was enabled. In the latter case, however, the first caller of `AcpiEnableGpe()` for a given GPE should not be expected to care about any events that might be signaled through it earlier. In that case, it is better to clear the status of the GPE before enabling it, to prevent stale events from triggering unwanted actions (like spurious system resume, for example).

For this reason, modify `AcpiEvAddGpeReference()` to take an additional boolean argument indicating whether or not the GPE status needs to be cleared when its reference counter changes from zero to one and make `AcpiEnableGpe()` pass `TRUE` to it through that new argument.

## 2) iASL Compiler/Disassembler and ACPICA tools:

The tool generation process has been migrated to MSVC 2017, and all project files have been upgraded. The new project files appear in the directory `\acpica\generate\msvc2017`. This change effectively deprecates the older project files in `\acpica\generate\msvc9`.

iASL: ensure that `_WAK`, `_PTS`, `_TTS`, and `_Sx` are declared only at the root scope. If these named objects are declared outside the root scope, they will not be invoked by any host Operating System

-----  
09 May 2019. Summary of changes for version 20190509:

### 1) ACPICA kernel-resident subsystem:

Revert commit 6c43e1a ("ACPICA: Clear status of GPEs before enabling them") that causes problems with Thunderbolt controllers to occur if a dock device is connected at init time (the `xhci_hcd` and `thunderbolt` modules crash which prevents peripherals connected through them from working). Commit 6c43e1a effectively causes commit ecc1165b8b74 ("ACPICA: Dispatch active GPEs at init time") to get undone, so the problem addressed by commit ecc1165b8b74 appears again as a result of it.

### 2) iASL Compiler/Disassembler and ACPICA tools:



Reverted iASL: Additional forward reference detection. This change reverts forward reference detection for field declarations. The feature unintentionally emitted AML bytecode with incorrect package lengths for some ASL

code related to Fields and OperationRegions. This malformed AML can cause systems to crash during boot. The malformed AML bytecode is emitted in iASL version 20190329 and 20190405.

iASL: improve forward reference detection. This change improves forward reference detection for named objects inside of scopes. If a parse object has the OP\_NOT\_FOUND\_DURING\_LOAD set, it means that Op is a reference to a named object that is declared later in the AML bytecode. This is allowed if the reference is inside of a method and the declaration is outside of a method like so:

```
DefinitionBlock(...)
{
    Method (TEST)
    {
        Return (NUM0)
    }
    Name (NUM0,0)
}
```

However, if the declaration and reference are both in the same method or outside any methods, this is a forward reference and should be marked as an error because it would result in runtime errors.

```
DefinitionBlock(...)
{
    Name (BUFF, Buffer (NUM0) {}) // Forward reference
    Name (NUM0, 0x0)

    Method (TEST)
    {

        Local0 = NUM1
        Name (NUM1, 0x1) // Forward reference
        return (Local0)
    }
}
```

iASL: Implemented additional buffer overflow analysis for BufferField declarations. Check if a buffer index argument to a create buffer field operation is beyond the end of the target buffer.



This affects these AML operators:

```
AML_CREATE_FIELD_OP
AML_CREATE_BIT_FIELD_OP
AML_CREATE_BYTE_FIELD_OP
AML_CREATE_WORD_FIELD_OP
AML_CREATE_DWORD_FIELD_OP
AML_CREATE_QWORD_FIELD_OP
```

There are three conditions that must be satisfied in order to allow this validation at compile time:

- 1) The length of the target buffer must be an integer constant
- 2) The index specified in the create\* must be an integer constant
- 3) For CreateField, the bit length argument must be non-zero.

Example:

```
Name (BUF1, Buffer() {1,2})
CreateField (BUF1, 7, 9, CF03) // 3: ERR
```

```
dsdt.asl 14: CreateField (BUF1, 7, 9, CF03) // 3: ERR
Error 6165 - ^ Buffer
index beyond end of
target buffer
```

-----  
05 April 2019. Summary of changes for version 20190405:

#### 1) ACPICA kernel-resident subsystem:

Event Manager: History: Commit 18996f2db918 ("ACPICA: Events: Stop unconditionally clearing ACPI IRQs during suspend/resume") was added earlier to stop clearing of event status bits unconditionally on suspend and resume paths. Though this change fixed an issue on suspend path, it introduced regressions on several resume paths. In the case of S0ix, events are enabled as part of device suspend path. If status bits for the events are set when they are enabled, it could result in premature wake from S0ix. If status is cleared for any event that is being enabled so that any stale events are cleared out. In case of S0ix, events are enabled as part of device suspend path. If status bits for the events are set when they are enabled, it could result in premature wake from S0ix.

This change ensures that status  
is cleared for any event that is being  
enabled so that any stale events are cleared out.



## 2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Implemented an enhanced multiple file compilation that combines named objects from all input files to a single namespace. With this feature, any unresolved external declarations as well as duplicate named object declarations can be detected during compilation rather than generating errors much later at runtime. The following commands are examples that utilize this feature:

```
iasl dsdt.asl ssdt.asl
iasl dsdt.asl ssdt1.asl ssdt2.asl
iasl dsdt.asl ssdt*.asl
```

-----  
29 March 2019. Summary of changes for version 20190329:

### 1) ACPICA kernel-resident subsystem:

Namespace support: Remove the address nodes from global list after method termination. The global address list contains pointers to namespace nodes that represent Operation Regions. This change properly removes Operation Region namespace nodes that are declared dynamically during method execution.

Linux: Use a different debug default than ACPICA. There was a divergence between Linux and the ACPICA codebases. In order to resolve this divergence, Linux now declares its own debug default in `aclinux.h`

Renamed some internal macros to improve code understanding and maintenance. The macros below all operate on single 4-character ACPI NameSegs, not generic strings (old -> new):

```
ACPI_NAME_SIZE    -> ACPI_NAMESEG_SIZE
ACPI_COMPARE_NAME -> ACPI_COMPARE_NAMESEG
ACPI_MOVE_NAME     -> ACPI_COPY_NAMESEG
```

Fix for missing comma in array declaration for the `AcpiGbl_GenericNotify` table.

Test suite: Update makefiles, add PCC operation region support

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented additional illegal forward reference detection. Now detect and emit an error upon detection of a forward reference from a Field to an Operation Region. This will fail at runtime if allowed to



pass the compiler.

AcpiExec:

Add an address list check for dynamic Operation Regions. This feature performs a sanity test for each node the global address list. This is done in order to ensure that all dynamic operation regions are properly removed from the global address list and no dangling pointers are left behind.

Disassembler: Improved generation of resource pathnames. This change improves the code that generates resource descriptor and resource tag pathnames. The original code used a bunch of str\* C library functions that caused warnings on some compilers.

iASL: Removed some uses of strncpy and replaced with memmove. The strncpy function can overwrite buffers if the calling code is not very careful. In the case of generating a module/table header, use of memmove is a better implementation.

3) Status of new features that have not been completed at this time:

iASL: Implementing an enhanced multiple file compilation into a single namespace feature (Status): This feature will be released soon, and allows multiple ASL files to be compiled into the same single namespace. By doing so, any unresolved external declarations as well as duplicate named object declarations can be detected during compilation (rather than later during runtime). The following commands are examples that utilize this feature:

```
iasl dsdt.asl ssdt.asl
iasl dsdt.asl ssdt1.asl ssdt2.asl
iasl dsdt.asl ssdt*.asl
```

ASL tutorial status: Feedback is being gathered internally and the current plan is to publish this tutorial on the ACPICA website after a final review by a tech writer.

-----  
15 February 2019. Summary of changes for version 20190215:

0) Support for ACPI specification version 6.3:

Add PCC operation region support for the AML interpreter. This adds PCC operation region support in the AML interpreter and a default handler for acpiexec. The change also renames the PCC region address space keyword to PlatformCommChannel.



Support for new

predefined methods `_NBS`, `_NCH`, `_NIC`, `_NIH`, and `_NIG`.

These methods provide OSPM with health information and device boot status.

PDTT: Add `TriggerOrder` to the PCC Identifier structure. The field value defines if the trigger needs to be invoked by OSPM before or at the end of kernel crash dump processing/handling operation.

SRAT: Add Generic Affinity Structure subtable. This subtable in the SRAT is used for describing devices such as heterogeneous processors, accelerators, GPUs, and IO devices with integrated compute or DMA engines.

MADT: Add support for statistical profiling in GICC. Statistical profiling extension (SPE) is an architecture-specific feature for ARM.

MADT: Add online capable flag. If this bit is set, system hardware supports enabling this processor during OS runtime.

New Error Disconnect Recover Notification value. There are a number of scenarios where system Firmware in collaboration with hardware may disconnect one or more devices from the rest of the system for purposes of error containment. Firmware can use this new notification value to alert OSPM of such a removal.

PPTT: New additional fields in Processor Structure Flags. These flags provide more information about processor topology.

NFIT/Disassembler: Change a field name from "Address Range" to "Region Type".

HMAT updates: make several existing fields to be reserved as well as rename subtable 0 to "memory proximity domain attributes".

GTDT: Add support for new GTDT Revision 3. This revision adds information for the EL2 timer.

iASL: Update the HMAT example template for new fields.

iASL: Add support for the new revision of the GTDT (Rev 3).

1) ACPICA kernel-resident subsystem:

AML Parser: fix the main AML parse loop to correctly skip erroneous



extended opcodes. AML opcodes come in two lengths: 1-byte opcodes and 2-byte extended opcodes. If an error occurs during an AML table load, the AML parser will continue loading the table by skipping the offending opcode. This implements a "load table at any cost" philosophy.

## 2) iASL Compiler/Disassembler and Tools:

iASL: Add checks for illegal object references, such as a reference outside of method to an object within a method. Such an object is only temporary.

iASL: Emit error for creation of a zero-length operation region. Such a region is rather pointless. If encountered, a runtime error is also implemented in the interpreter.

Debugger: Fix a possible fault with the "test objects" command.

iASL: Makefile: support parent directory filenames containing embedded spaces.

iASL: Update the TPM2 template to revision 4.

iASL: Add the ability to report specific warnings or remarks as errors.

Disassembler: Disassemble OEMx tables as actual AML byte code. Previously, these tables were treated as "unknown table".

iASL: Add definition and disassembly for TPM2 revision 3.

iASL: Add support for TPM2 rev 3 compilation.

-----  
08 January 2019. Summary of changes for  
version 20190108:

## 1) ACPICA kernel-resident subsystem:

Updated all copyrights to 2019. This affects all source code modules.

## 2) iASL Compiler/Disassembler and Tools:

ASL test suite (ASLTS): Updated all copyrights to 2019.



Tools: Updated all signon copyrights to 2019.

AcpiExec: Added a new option to dump extra information concerning any memory leaks detected by the internal object/cache tracking mechanism. -va

iASL: Updated the table template for the TPM2 table to the newest version of the table (Revision 4)

-----  
13 December 2018. Summary of changes for version 20181213:

#### 1) ACPICA Kernel-resident Subsystem:

Fixed some buffer length issues with the GenericSerialBus, related to two of the bidirectional protocols: `AttribRawProcessBytes` and `AttribRawBytes`, which are rarely seen in the field. For these, the `LEN` field of the ASL buffer is now ignored. Hans de Goede

Implemented a new object evaluation trace mechanism for control methods

and data objects. This includes nested control methods. It is particularly useful for examining the ACPI execution during system initialization since the output is relatively terse. The flag below enables the output of the trace via the `ACPI_DEBUG_PRINT_RAW` interface:

```
#define ACPI_LV_EVALUATION      0x00080000
```

Examples:

```
Enter evaluation      : _SB.PCI0._INI (Method)
Exit evaluation       : _SB.PCI0._INI
Enter evaluation      : _OSI (Method)
Exit evaluation       : _OSI
Enter evaluation      : _SB.PCI0.TEST (Method)
Nested method call    : _SB.PCI0.NST1
Exit nested method    : _SB.PCI0.NST1
Exit evaluation       : _SB.PCI0.TEST
```

Added two recently-defined `_OSI` strings. See <https://docs.microsoft.com/en-us/windows-hardware/drivers/acpi/winacpi-osi>.

```
"Windows 2018"
```

```
"Windows 2018.2"
```

Update for buffer-to-string conversions via the `ToHexString` ASL operator. A `"0x"` is now prepended to each of the hex values in the output string.



This provides compatibility with other ACPI implementations. The ACPI specification is somewhat vague on this issue.

Example output string after conversion:

"0x01,0x02,0x03,0x04,0x05,0x06"

Return a run-time error for TermArg expressions within individual package elements. Although this is technically supported by the ASL grammar, other ACPI implementations do not support this either. Also, this fixes a fault if this type of construct is ever encountered (it never has been).

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented a new compile option (-ww) that will promote individual warnings and remarks to errors. This is intended to enhance the firmware build process.

AcpiExec: Implemented a new command-line option (-eo) to support the new object evaluation trace mechanism described above.

Disassembler: Added support to disassemble OEMx tables as AML/ASL tables instead of a "unknown table" message.

AcpiHelp: Improved support for the "special" predefined names such as

\_Lxx, \_Exx, \_EJx, \_T\_x, etc. For these, any legal hex value can now be used for "xx" and "x".

-----  
31 October 2018. Summary of changes for version 20181031:

An Operation Region regression was fixed by properly adding address ranges to a global list during initialization. This allows OS to accurately check for overlapping regions between native devices (such as PCI) and Operation regions as well as checking for region conflicts between two Operation Regions.

Added support for the 2-byte extended opcodes in the code/feature that attempts to continue parsing during the table load phase. Skip parsing Device declarations (and other extended opcodes) when an error occurs during parsing. Previously, only single-byte opcodes were supported.

Cleanup: Simplified the module-level code support by eliminating a useless global variable (AcpiGbl\_GroupModuleLeveCode).



## 2) iASL Compiler/Disassembler and Tools:

iASL/Preprocessor: Fixed a

regression where an incorrect use of ACPI\_FREE could cause a fault in the preprocessor. This was an inadvertent side-effect from moving more allocations/frees to the local cache/memory mechanism.

iASL: Enhanced error detection by validating that all NameSeg elements within a NamePatch actually exist. The previous behavior was spotty at best, and such errors could be improperly ignored at compiler time (never at runtime, however. There are two new error messages, as shown in the examples below:

```
dsdt.asl 33: CreateByteField (TTTT.BXXX, 1, CBF1)
Error 6161 - ^ One or more objects within
the Pathname do not exist (TTTT.BXXX)
```

```
dsdt.asl 34: CreateByteField (BUF1, UUUU.INT1, BBBB.CBF1)
Error 6160 - One or more prefix Scopes do not exist ^
(BBBB.CBF1)
```

iASL: Disassembler/table-compiler: Added support for the static data table TPM2 revision 3 (an older version of TPM2). The support has been added for the compiler and the disassembler.

Fixed

compilation of DOS format data table file on Unix/Linux systems.  
iASL now properly detects line continuations (\) for DOS format data table definition language files on when executing on Unix/Linux.

-----  
03 October 2018. Summary of changes for version 20181003:

## 2) iASL Compiler/Disassembler and Tools:

Fixed a regression introduced in version 20180927 that could cause the compiler to fault, especially with NamePaths containing one or more carats (^). Such as: ^^\_SB\_PCI0

Added a new remark for the Sleep() operator when the sleep time operand is larger than one second. This is a very long time for the ASL/BIOS code and may not be what was intended by the ASL writer.

-----  
27 September 2018. Summary of changes for version 20180927:



## 1) ACPICA kernel-resident subsystem:

Updated the GPE support to clear the status of all ACPI events when entering any/all sleep states in order to avoid premature wakeups. In theory, this may cause some wakeup events to be missed, but the likelihood of this is small. This change restores the original behavior of the ACPICA code in order to fix a regression seen from the previous "Stop unconditionally clearing ACPI IRQs during suspend/resume" change. This regression could cause some systems to incorrectly wake immediately.

Updated the execution of the `_REG` methods during initialization and namespace loading to bring the behavior into closer conformance to the ACPI specification and other ACPI implementations:

From the ACPI specification 6.2A, section 6.5.4 "`_REG` (Region):

"Control methods must assume all operation regions are inaccessible until the `_REG(RegionSpace, 1)` method is executed"

"The exceptions to this rule are:

1. OSPM must guarantee that the following operation regions are always accessible:

- SystemIO operation regions.

- SystemMemory operation regions when accessing memory returned by the System Address

- Map reporting interfaces."

Since the state of both the SystemIO and SystemMemory address spaces are defined by the specification to never change, this ACPICA change ensures that now `_REG` is never called on them. This solves some problems seen in the field and provides compatibility with other ACPI implementations. An update to the upcoming new version of the ACPI specification will help clarify this behavior.

Updated the implementation of support for the Generic Serial Bus. For the "bidirectional" protocols, the internal implementation now automatically creates a return data buffer of the maximum size (255). This handles the worst-case for data that is returned from the serial bus handler, and fixes some problems seen in the field. This new buffer is directly returned to the ASL. As such, there is no true "bidirectional" buffer, which matches the ACPI specification. This is the reason for the "double store" seen in the example ASL code in the specification, shown below:

Word

Process Call (AttribProcessCall):

- OperationRegion(TOP1, GenericSerialBus, 0x00, 0x100)

- Field(TOP1, BufferAcc, NoLock, Preserve)



```

{
    FLD1, 8, // Virtual register at command value 1.
}

Name(BUFF, Buffer(20){}) // Create GenericSerialBus data buffer
    // as BUFF
CreateWordField(BUFF, 0x02, DATA) // DATA = Data (Word)

Store(0x5416, DATA) // Save 0x5416 into the data buffer
Store(Store(BUFF, FLD1), BUFF) // Invoke a write/read Process Call
transaction
    // This is the "double store". The write to
    // FLD1 returns a new buffer, which is stored
    // back into BUFF with the second Store.

```

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented detection of extraneous/redundant uses of the Offset() operator within a Field Unit list. A remark is now issued for these. For example, the first two of the Offset() operators below are extraneous.

Because both the compiler and the interpreter track the offsets automatically, these Offsets simply refer to the current offset and are unnecessary. Note, when optimization is enabled, the iASL compiler will in fact remove the redundant Offset operators and will not emit any AML code for them.

```

OperationRegion (OPR1, SystemMemory, 0x100, 0x100)
Field (OPR1)
{
    Offset (0), // Never needed
    FLD1, 32,
    Offset (4), // Redundant, offset is already 4 (bytes)
    FLD2, 8,
    Offset (64), // OK use of Offset.
    FLD3, 16,
}
dsdt.asl 14: Offset (0),
Remark 2158 - ^ Unnecessary/redundant use of Offset
operator

dsdt.asl 16: Offset (4),
Remark 2158 - ^ Unnecessary/redundant use of Offset
operator

```

-----  
10 August 2018. Summary of changes for version 20180810:



## 1) ACPICA kernel-resident subsystem:

### Initial ACPI table

loading: Attempt to continue loading ACPI tables regardless of malformed AML. Since migrating table initialization to the new module-level code support, the AML interpreter rejected tables upon any ACPI error encountered during table load. This is a problem because non-serious ACPI errors during table load do not necessarily mean that the entire definition block (DSDT or SSDT) is invalid. This change improves the table loading by ignoring some types of errors that can be generated by incorrect AML. This can range from object type errors, scope errors, and index errors.

Suspend/Resume support: Update to stop unconditionally clearing ACPI IRQs during suspend/resume. The status of ACPI events is no longer cleared when entering the ACPI S5 system state (power off) which caused some systems to power up immediately after turning off power in certain situations. This was a functional regression. It was fixed by clearing the status of all ACPI events again when entering S5 (for system-wide suspend or hibernation the clearing of the status of all events is not desirable, as it might cause the kernel to miss wakeup events sometimes).  
Rafael Wysocki.

## 2) iASL Compiler/Disassembler and Tools:

AcpiExec: Enhanced the -fi option (Namespace initialization file). Field elements listed in the initialization file were previously initialized after the table load and before executing module-level code blocks. Recent changes in the module-level code support means that the table load becomes a large control method execution. If fields are used within module-level code and we are executing with the -fi option, the initialization values were used to initialize the namespace object(s) only after the table was finished loading. This change Provides an early initialization of objects specified in the initialization file so that field unit values are populated during the table load (not after the load).

AcpiExec: Fixed a small memory leak regression that could result in warnings during exit of the utility. These warnings were similar to these:

```
0002D690 Length 0x0006 nsnames-0502 [Not a Descriptor - too small]
0002CD70 Length 0x002C utcache-0453 [Operand] Integer RefCount 0x0001
```



-----  
29 June 2018. Summary of changes for version 20180629:

#### 1) iASL Compiler/Disassembler and Tools:

iASL: Fixed a regression related to the use of the ASL External statement. Error checking for the use of the External() statement has been relaxed. Previously, a restriction on the use of External meant that the referenced named object was required to be defined in a different table (an SSDT). Thus it would be an error to declare an object as an external and then define the same named object in the same table. For example:

```
DefinitionBlock (...)  
{  
    External (DEV1)  
    Device (DEV1){...} // This was an error  
}
```

However, this behavior has caused regressions in some existing ASL code, because there is code that depends on named objects and externals (with the same name) being declared in the same table. This change will allow the ASL code above to compile without errors or warnings.

iASL: Implemented ASL language extensions for four operators to make some of their arguments optional instead of required:

- 1) Field (RegionName, AccessType, LockRule, UpdateRule)
- 2) BankField (RegionName, BankName, BankValue, AccessType, LockRule, UpdateRule)
- 3) IndexField (IndexName, DataName, AccessType, LockRule, UpdateRule)

For the Field operators above, the AccessType, LockRule, and UpdateRule are now optional arguments. The default values are:

```
AccessType: AnyAcc  
LockRule:  NoLock  
UpdateRule: Preserve
```

- 4) Mutex (MutexName, SyncLevel)

For this operator, the SyncLevel argument is now optional. This argument is rarely used in any meaningful way by ASL code, and thus it makes sense to make it optional. The default value is:

```
SyncLevel: 0
```

iASL: Attempted use of the ASL Unload() operator now results in the following warning:

```
"Unload is not supported by all operating systems"
```

This is in fact very true, and the Unload operator may be completely deprecated in the near future.



AcpiExec: Fixed a regression for the -fi option (Namespace initialization file. Recent changes in the ACPICA module-level code support altered the table load/initialization sequence . This means that the table load has become a large method execution of the table itself. If Operation Region Fields are used within any module-level code and the -fi option was specified, the initialization values were populated only after the table had completely finished loading (and thus the module-level code had already been executed). This change moves the initialization of objects listed in the initialization file to before the table is executed as a method. Field unit values are now initialized before the table execution is performed.

-----  
31 May 2018. Summary of changes for version 20180531:

#### 1) ACPICA kernel-resident Subsystem:

Implemented additional support to help ensure that a DSDT or SSDT is fully loaded even if errors are incurred during the load. The majority of the problems that are seen is the failure of individual AML operators that occur during execution of any module-level code (MLC) existing in the table. This support adds a mechanism to abort the current ASL statement (AML opcode), emit an error message, and to simply move on to the next opcode -- instead of aborting the entire table load. This is different than the execution of a control method where the entire method is aborted upon any error. The goal is to perform a very "best effort" to load the ACPI tables. The most common MLC errors that have been seen in the field are direct references to unresolved ASL/AML symbols (referenced directly without the use of the CondRefOf operator to validate the symbol). This new ACPICA behavior is now compatible with other ACPI implementations.

Interpreter: The Unload AML operator is no longer supported for the reasons below. An AE\_NOT\_IMPLEMENTED exception is returned.

- 1) A correct implementation on at least some hosts may not be possible.
- 2) Other ACPI implementations do not correctly/fully support it.
- 3) It requires host device driver support which is not known to exist.  
(To properly support namespace unload out from underneath.)
- 4) This AML operator has never been seen in the field.

Parser: Added a debug option to dump AML parse sub-trees as they are being executed. Used with ACPI\_DEBUG\_PRINT, the enabling debug level is ACPI\_DB\_PARSE\_TREES.



Debugger: Reduced the verbosity for errors incurred during table load and module-level code execution.

Completed an investigation into adding a namespace node "owner list" instead of the current "owner ID" associated with namespace nodes. This list would link together all nodes that are owned by an individual control method. The purpose would be to enhance control method execution by speeding up cleanup during method exit (all namespace nodes created by a method are deleted upon method termination.) Currently, the entire namespace must be searched for matching owner IDs if (and only if) the method creates named objects outside of the local scope. However, by far the most common case is that methods create objects locally, not outside the method scope. There is already an ACPICA optimization in place that only searches the entire namespace in the rare case of a method creating objects elsewhere in the namespace. Therefore, it is felt that the overhead of adding an additional pointer to each namespace node to implement the owner list makes this feature unnecessary.

## 2) iASL Compiler/Disassembler and Tools:

iASL, Disassembler, and Template generator: Implemented support for Revision D of the IORT table. Adds a new subtable that is used to specify

SMMUv3 PMCGs. rmurphy-arm.

Disassembler: Restored correct table header validation for the "special" ACPI tables -- RSDP and FACS. These tables do not contain a standard ACPI table header and must be special-cased. This was a regression that has been present for apparently a long time.

AcpiExec: Reduced verbosity of the local exception handler implemented within acpiexec. This handler is invoked by ACPICA upon any exceptions generated during control method execution. A new option was added: -vh restores the original verbosity level if desired.

AcpiExec: Changed the default base from decimal to hex for the -x option (set debug level). This simplifies the use of this option and matches the behavior of the corresponding iASL -x option.

AcpiExec: Restored a force-exit on multiple control-c (sigint) interrupts. This allows program termination even if other issues cause the control-c to fail.

ASL test suite (ASLTS): Added tests for the recently implemented package element



resolution mechanism that allows forward references to named objects from individual package elements (this mechanism provides compatibility with other ACPI implementations.)

-----  
8 May 2018. Summary of changes for version 20180508:

1) ACPICA kernel-resident subsystem:

Completed the new (recently deployed) package resolution mechanism for the Load and LoadTable ASL/AML operators. This fixes a regression that was introduced in version 20180209 that could result in an AE\_AML\_INTERNAL exception during the loading of a dynamic ACPI/AML table (SSDT) that contains package objects.

2) iASL Compiler/Disassembler and Tools:

AcpiDump and AcpiXtract: Implemented support for ACPI tables larger than 1 MB. This change allows for table offsets within the acpidump file to be up to 8 characters. These changes are backwards compatible with existing acpidump files.

-----  
27 April 2018. Summary of changes for version 20180427:

1) ACPICA kernel-resident subsystem:

Debugger: Added support for Package objects in the "Test Objects" command. This command walks the entire namespace and evaluates all named data objects (Integers, Strings, Buffers, and now Packages).

Improved error messages for the namespace root node. Originally, the root was referred to by the confusing string "\\_\_". This has been replaced by "Namespace Root" for clarification.

Fixed a potential infinite loop in the AcpiRsDumpByteList function. Colin Ian King <colin.king@canonical.com>.

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented support to detect and flag illegal forward references.



For compatibility with other ACPI implementations, these references are now illegal at the root level of the DSDT or SSDTs. Forward references have always been illegal within control methods. This change should not affect existing ASL/AML code because of the fact that these references have always been illegal in the other ACPI implementation.

iASL: Added error messages for the case where a table OEM ID and OEM TABLE ID strings are longer than the ACPI-defined length. Previously, these strings were simply silently truncated.

iASL: Enhanced the -tc option (which creates an AML hex file in C, suitable for import into a firmware project):

- 1) Create a unique name for the table, to simplify use of multiple SSDTs.

- 2) Add a protection #ifdef in the file, similar to a .h header file.

With assistance from Sami Mujawar, sami.mujawar@arm.com and Evan Lloyd, evan.lloyd@arm.com

AcpiExec: Added a new option, -df, to disable the local fault handler.

This is useful during debugging, where it may be desired to drop into a debugger on a fault.

-----  
13 March 2018. Summary of changes for version 20180313:

- 1) ACPICA kernel-resident subsystem:

Implemented various improvements to the GPE support:

- 1) Dispatch all active GPEs at initialization time so that no GPEs are lost.

- 2)

Enable runtime GPEs earlier. Some systems expect GPEs to be enabled before devices are enumerated.

- 3) Don't unconditionally clear ACPI IRQs during suspend/resume, so that IRQs are not lost.

- 4) Add parallel GPE handling to eliminate the possibility of dispatching the same GPE twice.

- 5) Dispatch any pending GPEs after enabling for the first time.

AcpiGetObjectInfo - removed support for the \_STA method. This was causing problems on some platforms.

Added a new \_OSI string, "Windows 2017.2".

Cleaned up and simplified the module-level code support. These changes



are in preparation for the eventual removal of the legacy MLC support (deferred execution), replaced by the new MLC architecture which executes the MLC as a table is loaded (DSDT/SSDTs).

Changed a compile-time option to a runtime option. Changes the option to ignore ACPI table load-time package resolution errors into a runtime option. Used only for platforms that generate many AE\_NOT\_FOUND errors during boot. AcpiGbl\_IgnorePackageResolutionErrors.

Fixed

the ACPI\_ERROR\_NAMESPACE macro. This change involves putting some ACPI\_ERROR\_NAMESPACE parameters inside macros. By doing so, we avoid compilation errors from unused variables (seen with some compilers).

## 2) iASL Compiler/Disassembler and Tools:

ASLTS: parallelized execution in order to achieve an (approximately) 2X performance increase.

ASLTS: Updated to use the iASL \_\_LINE\_\_ and \_\_METHOD\_\_ macros. Improves error reporting.

-----  
09 February 2018. Summary of changes for version 20180209:

### 1) ACPICA kernel-resident subsystem:

Completed the final integration of the recent changes to Package Object handling and the module-level AML code support. This allows forward references from individual package elements when the package object is declared from within module-level code blocks. Provides compatibility with other ACPI implementations.

The new architecture for the AML module-level code has been completed and is now the default for the ACPICA code. This new architecture executes the module-level code in-line as the ACPI table is loaded/parsed instead of the previous architecture which deferred this code until after the table was fully loaded. This solves some ASL code ordering issues and provides compatibility with other ACPI implementations. At this time, there is an option to fallback to the earlier architecture, but this support is deprecated and is planned to be completely removed later this year.

Added a compile-time option to ignore AE\_NOT\_FOUND exceptions during resolution of named reference elements within Package objects. Although



this is potentially a serious problem, it can generate a lot of noise/errors on platforms whose firmware carries around a bunch of unused Package objects. To disable these errors, define `ACPI_IGNORE_PACKAGE_RESOLUTION_ERRORS` in the OS-specific header. All errors are always reported for ACPICA applications such as `AcpiExec`.

Fixed

a regression related to the explicit type-conversion AML operators (`ToXXXX`). The regression was introduced early in 2017 but was not seen until recently because these operators are not fully supported by other ACPI implementations and are thus rarely used by firmware developers. The operators are defined by the ACPI specification to not implement the "implicit result object conversion". The regression incorrectly introduced this object conversion for the following explicit conversion operators:

- `ToInteger`
- `ToString`
- `ToBuffer`
- `ToDecimalString`
- `ToHexString`
- `ToBCD`
- `FromBCD`

## 2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem with the compiler constant folding feature as related to the `ToXXXX` explicit conversion operators. These operators do not support the "implicit result object conversion" by definition. Thus, ASL expressions that use these operators cannot be folded to a simple `Store` operator because `Store` implements the implicit conversion.

This

change uses the `CopyObject` operator for the `ToXXXX` operator folding instead. `CopyObject` is defined to not implement implicit result conversions and is thus appropriate for folding the `ToXXXX` operators.

iASL: Changed the severity of an error condition to a simple warning for the case where a symbol is declared both locally and as an external symbol. This accommodates existing ASL code.

`AcpiExec`: The `-ep` option to enable the new architecture for module-level code has been removed. It is replaced by the `-dp` option which instead has the opposite effect: it disables the new architecture (the default) and enables the legacy architecture. When the legacy code is removed in the future, the `-dp` option will be removed also.

-----  
05 January 2018. Summary of changes for version 20180105:



1) ACPICA kernel-resident subsystem:

Updated all copyrights to 2018. This affects all source code modules.

Fixed a possible build error caused by an unresolved reference to the AcpiUtSafeStrncpy function.

Removed NULL pointer arithmetic in the various pointer manipulation macros. All "(void \*) NULL" constructs are converted to "(void \*) 0". This eliminates warnings/errors in newer C compilers. Jung-uk Kim.

Added support for A32 ABI compilation, which uses the ILP32 model. Anuj Mittal.

2) iASL Compiler/Disassembler and Tools:

ASLTS: Updated all copyrights to 2018.

Tools: Updated all signon copyrights to 2018.

AcpiXtract: Fixed a regression related to ACPI table signatures where the signature was truncated to 3 characters (instead of 4).

AcpiExec: Restore the original terminal mode after the use of the -v and -vd options.

ASLTS: Deployed the iASL \_\_METHOD\_\_ macro across the test suite.

-----  
14 December 2017. Summary of changes for version 20171214:

1) ACPICA kernel-resident subsystem:

Fixed a regression in the external (public) AcpiEvaluateObjectTyped interface where the optional "pathname" argument had inadvertently become a required argument returning an error if omitted (NULL pointer argument).

Fixed two possible memory leaks related to the recently developed "late resolution" of reference objects within ASL Package Object definitions.

Added two recently defined \_OSI strings: "Windows 2016" and "Windows



2017". Mario Limonciello.

Implemented and deployed a safer version of the C library function `strncpy`: `AcpiUtSafeStrncpy`. The intent is to at least prevent the creation of unterminated strings as a possible result of a standard `strncpy`.

Cleaned up and restructured the global variable file (`acglobal.h`). There are many changes, but no functional changes.

## 2) iASL Compiler/Disassembler and Tools:

iASL Table Compiler: Fixed a problem with the DBG2 ACPI table where the optional `OemData` field at the end of the table was incorrectly required for proper compilation. It is now correctly an optional field.

ASLTS: The entire suite was converted from standard ASL to the ASL+ language, using the ASL-to-ASL+ converter which is integrated into the iASL compiler. A binary compare of all output files has verified the correctness of the conversion.

iASL: Fixed the source code build for platforms where "char" is unsigned. This affected the iASL lexer only. Jung-uk Kim.

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10 November 2017. Summary of changes for version 20171110:

## 1) ACPICA kernel-resident subsystem:

This release implements full support for ACPI 6.2A:

NFIT - Added a new subtable, "Platform Capabilities Structure"

No other changes to ACPICA were required, since ACPI 6.2A is primarily an errata release of the specification.

Other ACPI table changes:

IORT: Added the SMMUv3 Device ID mapping index. Hanjun Guo

PPTT: Added cache attribute flag definitions to `actbl1.h`. Jeremy Linton

Utilities: Modified the string/integer conversion functions to use internal 64-bit divide support instead of a native divide. On 32-bit platforms,

a 64-bit divide typically requires a library function which may not be present in the build (kernel or otherwise).



Implemented a targeted error message for timeouts returned from the Embedded Controller device driver. This is seen frequently enough to special-case an AE\_TIME returned from an EC operation region access:

"Timeout from EC hardware or EC device driver"

Changed the "ACPI Exception" message prefix to "ACPI Error" so that all runtime error messages have the identical prefix.

## 2) iASL Compiler/Disassembler and Tools:

AcpiXtract: Fixed a problem with table header detection within the acpidump file. Processing a table could be ended early if a 0x40 (@) appears in the original binary table, resulting in the @ symbol appearing in the decoded ASCII field at the end of the acpidump text line. The symbol caused acpixtract to incorrectly think it had reached the end of the current table and the beginning of a new table.

AcpiXtract: Added an option (-f) to ignore some errors during table extraction. This initial implementation ignores non-ASCII and non-printable characters found in the acpidump text file.

TestSuite(ASLTS)/AcpiExec: Fixed and restored the memory usage statistics for ASLTS. This feature is used to track memory allocations from different memory caches within the ACPICA code. At the end of an ASLTS run, these memory statistics are recorded and stored in a log file.

Debugger (user-space version): Implemented a simple "Background" command. Creates a new thread to execute a control method in the background, while control returns to the debugger prompt to allow additional commands.

Syntax: Background <Namepath> [Arguments]

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29 September 2017. Summary of changes for version 20170929:

## 1) ACPICA kernel-resident subsystem:

Redesigned and implemented an improved ASL While() loop timeout mechanism. This mechanism is used to prevent infinite loops in the kernel AML interpreter caused by either non-responsive hardware or incorrect AML code. The new implementation uses AcpiOsGetTimer instead of a simple maximum loop count, and is thus more accurate and constant across different machines. The default timeout is currently 30 seconds, but this may be adjusted later.



Renamed the ACPI\_AML\_INFINITE\_LOOP exception to AE\_AML\_LOOP\_TIMEOUT to better reflect the new implementation of the loop timeout mechanism.

Updated the AcpiGetTimerDuration interface to cleanup the 64-bit support and to fix an off-by-one error. Jung-uk Kim.

Fixed an EFI build problem by updating the makefiles to for a new file that was added, utstrsuppt.c

## 2) iASL Compiler/Disassembler and Tools:

Implemented full support for the PDTT, SDEV, and TPM2 ACPI tables. This includes support in the table disassembler, compiler, and template generator.

iASL: Added an exception for an illegal type of recursive method invocation. If a method creates named objects, the first recursive call will fail at runtime. This change adds an error detection at compile time to catch the problem up front. Note: Marking such a method as "serialized" will not help with this problem, because the same thread can acquire the method mutex more than once. Example compiler and runtime output:

```
Method (MTH1)
{
    Name (INT1, 1)
    MTH1 ()
}
```

```
dsdt.asl 22: MTH1 ()
Error 6152 - ^ Illegal recursive call to method
           that creates named objects (MTH1)
```

Previous runtime exception:

```
ACPI Error: [INT1] Namespace lookup failure,
AE_ALREADY_EXISTS (20170831/dswload2-465)
```

iASL: Updated support for External() opcodes to improve namespace management and error detection. These changes are related to issues seen with multiple-segment namespace pathnames within External declarations, such as below:

```
External(\_SB.PCI0.GFX0, DeviceObj)
External(\_SB.PCI0.GFX0.ALSI)
```

iASL: Implemented support for multi-line error/warning messages. This



enables

more detailed and helpful error messages as below, from the initial deployment for the duplicate names error:

```
DSDT.iiii 1692: Device(PEG2) {  
Error 6074 - ^ Name already exists in scope  
(PEG2)
```

Original name creation/declaration below:

```
DSDT.iiii 93: External(\_SB.PCI0.PEG2, DeviceObj)
```

AcpiXtract: Added additional flexibility to support differing input hex dump formats. Specifically, hex dumps that contain partial disassembly and/or comments within the ACPI table data definition. There exist some dump utilities seen in the field that create this type of hex dump (such as Simics). For example:

```
DSDT @ 0xdfffd0c0 (10999 bytes)  
Signature DSDT  
Length 10999  
Revision 1  
Checksum 0xf3 (Ok)  
OEM_ID BXPC  
OEM_table_id BXDSDT  
OEM_revision 1  
Creator_id 1280593481  
Creator_revision 537399345  
0000: 44 53 44 54 f7 2a 00 00 01 f3 42 58 50 43 00 00  
...  
2af0: 5f 4c 30 46 00 a4 01
```

Test suite: Miscellaneous changes/fixes:

- More cleanup and simplification of makefiles
- Continue compilation of test cases after a compile failure
- Do not perform binary compare unless both files actually exist

iASL: Performed some code/module restructuring. Moved all memory allocation functions to new modules. Two new files, aslallocate.c and aslcache.c

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31 August 2017. Summary of changes for version 20170831:

1) ACPICA kernel-resident subsystem:

Implemented internal support for full 64-bit addresses that appear in all Generic Address Structure (GAS) structures. Previously, only the lower 32



bits were used. Affects the use of GAS structures in the FADT and other tables, as well as the GAS structures passed to the AcpiRead and AcpiWrite public external interfaces that are used by drivers. Lv Zheng.

Added header support for the PDTT ACPI table (Processor Debug Trigger Table). Full support in the iASL Data Table Compiler and disassembler is forthcoming.

## 2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Fixed a problem with the PPTT ACPI table (Processor Properties Topology Table) where a flag bit was specified in the wrong bit position ("Line Size Valid", bit 6).

iASL: Implemented support for Octal integer constants as defined by the ASL language grammar, per the ACPI specification. Any integer constant that starts with a zero is an octal constant. For example,

```
Store (037777, Local0) /* Octal constant */  
Store (0x3FFF, Local0) /* Hex equivalent */  
Store (16383, Local0) /* Decimal equivalent */
```

iASL: Improved overflow detection for 64-bit string conversions during compilation of integer constants. "Overflow" in this case means a string that represents an integer that is too large to fit into a 64-bit value. Any 64-bit constants within a 32-bit DSDT or SSDT are still truncated to the low-order 32 bits with a warning, as previously implemented.

Several

new exceptions are defined that indicate a 64-bit overflow, as well as the base (radix) that was used during the attempted conversion. Examples:

```
Local0 = 0xAAAABBBBCCCCDDDDDEEEEEFFFF // AE_HEX_OVERFLOW  
Local0 = 01111222233334444555566667777 // AE_OCTAL_OVERFLOW  
Local0 = 11112222333344445555666677778888 // AE_DECIMAL_OVERFLOW
```

iASL: Added a warning for the case where a ResourceTemplate is declared with no ResourceDescriptor entries (coded as "ResourceTemplate(){}"). In this case, the resulting template is created with a single END\_TAG descriptor, which is essentially useless.

iASL: Expanded the -vw option (ignore specific warnings/remarks) to include compilation error codes as well.

-----  
28 July 2017. Summary of changes for version 20170728:

## 1) ACPICA kernel-resident subsystem:



Fixed a regression seen with small resource descriptors that could cause an inadvertent AE\_AML\_NO\_RESOURCE\_END\_TAG exception.

#### AML

interpreter: Implemented a new feature that allows forward references from individual named references within package objects that are contained within blocks of "module-level code". This provides compatibility with other ACPI implementations and supports existing firmware that depends on this feature. Example:

```
Name (ABCD, 1)
If (ABCD)          /* An If() at module-level */
{
    Name (PKG1, Package()
    {
        INT1          /* Forward reference to object INT1
*/
    })
    Name (INT1, 0x1234)
}
```

AML Interpreter: Fixed a problem with the Alias() operator where aliases to some ASL objects were not handled properly. Objects affected are: Mutex, Event, and OperationRegion.

AML Debugger: Enhanced to properly handle AML Alias objects. These objects have one level of indirection which was not fully supported by the debugger.

Table Manager: Added support to detect and ignore duplicate SSDTs within the XSDT/RSDT. This error in the XSDT has been seen in the field.

#### EFI and EDK2 support:

- Enabled /WX flag for MSVC builds
- Added support for AcpiOsStall, AcpiOsSleep, and AcpiOsGetTimer
- Added local support for 64-bit multiply and shift operations
- Added support to compile acpidump.efi on Windows
- Added OSL function stubs for interfaces not used under EFI

Added additional support for the \_DMA predefined name. \_DMA returns a buffer containing a resource template. This change add support within the resource manager (AcpiWalkResourceBuffer) to walk and parse this list of resource descriptors. Lorenzo Pieralisi <lorenzo.pieralisi@arm.com>

#### 2) iASL Compiler/Disassembler and Tools:



iASL: Fixed a problem where the internal input line buffer(s) could overflow if there are very long lines in the input ASL source code file. Implemented buffer management that automatically increases the size of the buffers as necessary.

iASL: Added an option (-vx) to "expect" particular remarks, warnings and errors. If the specified exception is not raised during compilation, the compiler emits an error. This is intended to support the ASL test suite, but may be useful in other contexts.

iASL: Implemented a new predefined macro, \_\_METHOD\_\_, which returns a string containing the name of the current control method that is being compiled.

iASL: Implemented debugger and table compiler support for the SDEI ACPI table (Software Delegated Exception Interface). James Morse <james.morse@arm.com>

Unix/Linux makefiles: Added an option to disable compile optimizations. The disable occurs when the NOOPT flag is set to TRUE. theracermaster@gmail.com

Acpidump: Added support for multiple DSDT and FACS tables. This can occur when there are different tables for 32-bit versus 64-bit.

Enhanced error reporting for the ASL test suite (ASLTS) by removing unnecessary/verbose text, and emit the actual line number where an error has occurred. These changes are intended to improve the usefulness of the test suite.

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29 June 2017. Summary of changes for version 20170629:

#### 1) ACPICA kernel-resident subsystem:

Tables: Implemented a deferred ACPI table verification. This is useful for operating systems where the tables cannot be verified in the early initialization stage due to early memory mapping limitations on some architectures. Lv Zheng.

Tables: Removed the signature validation for dynamically loaded tables. Provides compatibility with other ACPI implementations. Previously, only SSDT tables were allowed, as per the ACPI specification. Now, any table signature can be used via the Load() operator. Lv Zheng.



Tables: Fixed several mutex issues that could cause errors during table acquisition. Lv Zheng.

Tables: Fixed a problem where an ACPI warning could be generated if a null pointer was passed to the AcpiPutTable interface. Lv Zheng.

Tables: Added a mechanism to handle imbalances for the AcpiGetTable and AcpiPutTable interfaces.

This applies to the "late stage" table loading when the use of AcpiPutTable is no longer required (since the system memory manager is fully running and available). Lv Zheng.

Fixed/Reverted a regression during processing of resource descriptors that contain only a single EndTag. Fixes an AE\_AML\_NO\_RESOURCE\_END\_TAG exception in this case.

Headers: IORT/SMMU support: Updated the SMMU models for Revision C of the I/O Remapping specification. Robin Murphy <robin.murphy@arm.com>

Interpreter: Fixed a possible fault if an Alias operator with an invalid or duplicate target is encountered during Alias creation in AcpiExCreateAlias. Alex James <theracermaster@gmail.com>

Added an option to use designated initializers for function pointers. Kees Cook <keescook@google.com>

## 2) iASL Compiler/Disassembler and Tools:

iASL: Allow compilation of External declarations with target pathnames that refer to existing named objects within the table. Erik Schmauss.

iASL: Fixed a regression when compiling FieldUnits. Fixes an error if a FieldUnit name also is declared via External in the same table. Erik Schmauss.

iASL: Allow existing scope names within pathnames used in External statements. For example:

```
External (ABCD.EFGH) // ABCD exists, but EFGH is truly external
Device (ABCD)
```

iASL: IORT ACPI table: Implemented changes required to decode the new Proximity Domain for the SMMUv3 IORT. Disassembler and Data Table compiler. Ganapatrao Kulkarni <ganapatrao.kulkarni@cavium.com>

Disassembler: Don't abort disassembly on errors from External()



statements. Erik Schmauss.

Disassembler: fixed a possible fault when one of the Create\*Field operators references a Resource Template. ACPICA Bugzilla 1396.

iASL: In the source code, resolved some naming inconsistencies across the parsing support. Fixes confusion between "Parse Op" and "Parse Node". Adds a new file, aslparseop.c

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31 May 2017. Summary of changes for version  
20170531:

#### 0) ACPI 6.2 support:

The ACPI specification version 6.2 has been released and is available at <http://uefi.org/specifications>

This version of ACPICA fully supports the ACPI 6.2 specification. Changes are summarized below.

#### New ACPI tables (Table Compiler/Disassembler/Templates):

- HMAT (Heterogeneous Memory Attributes Table)
- WSMT (Windows SMM Security Mitigation Table)
- PPTT (Processor Properties Topology Table)

#### New subtables for existing ACPI tables:

- HEST (New subtable, Arch-deferred machine check)
- SRAT (New subtable, Arch-specific affinity structure)
- PCCT (New subtables, Extended PCC subspaces (types 3 and 4))

#### Simple updates for existing ACPI tables:

- BGRT (two new flag bits)
- HEST (New bit defined for several subtables, GHES\_ASSIST)

#### New Resource Descriptors and Resource macros (Compiler/Disassembler):

- PinConfig()
- PinFunction()
- PinGroup()
- PinGroupConfig()
- PinGroupFunction()
- New type for hardware error notification (section 18.3.2.9)

#### New predefined names/methods (Compiler/Interpreter):

- \_HMA (Heterogeneous Memory Attributes)
- \_LSI (Label Storage Information)



\_LSR (Label Storage Read)  
\_LSW (Label Storage Write)

ASL grammar/macro changes (Compiler):

For() ASL macro, implemented with the AML while operator  
Extensions to Concatenate operator  
Support for multiple definition blocks in same ASL file  
Clarification for Buffer operator  
Allow executable AML code underneath all scopes (Devices, etc.)  
Clarification/change for the \_OSI return value  
ASL grammar update for reference operators  
Allow a zero-length string for AML filename in DefinitionBlock

Miscellaneous:

New device object notification value  
Remove a notify value (0x0C) for graceful shutdown  
New UUIDs for processor/cache properties and  
physical package property  
New \_HID, ACPI0014 (Wireless Power Calibration Device)

1) ACPICA kernel-resident subsystem:

Added support to disable

ACPI events on hardware-reduced platforms.

Eliminates error messages of the form "Could not enable fixed event". Lv  
Zheng

Fixed a problem using Device/Thermal objects with the ObjectType and  
DerefOf ASL operators. This support had not been fully/properly  
implemented.

Fixed a problem where if a Buffer object containing a resource template  
was longer than the actual resource template, an error was generated --  
even though the AML is legal. This case has been seen in the field.

Fixed a problem with the header definition of the MADT PCAT\_COMPAT flag.  
The values for DUAL\_PIC and MULTIPLE\_APIC were reversed.

Added header file changes for the TPM2 ACPI table. Update to new version  
of the TCG specification. Adds a new TPM2 subtable for ARM SMC.

Exported the external interfaces AcpiAcquireMutex and AcpiReleaseMutex.  
These interfaces are intended to be used only in conjunction with the  
predefined \_DLM method (Device Lock Method). "This object appears in a  
device scope when AML access  
to the device must be synchronized with the  
OS environment".



Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 143.1K Code, 60.0K Data, 203.1K Total

Debug Version: 204.0K Code, 84.3K Data, 288.3K Total

Previous Release:

Non-Debug Version: 141.7K Code, 58.5K Data, 200.2K Total

Debug Version: 207.5K Code, 82.7K Data, 290.2K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem where an `External()` declaration could not refer to a Field Unit. Erik Schmauss.

Disassembler: Improved support for the Switch/Case operators. This feature will disassemble AML code back to the original Switch operators when possible, instead of an If..Else sequence. David Box

iASL and disassembler: Improved the handling of multiple extraneous parentheses for both ASL input and disassembled ASL output.

Improved the behavior of the iASL compiler and disassembler to detect improper use of external declarations

Disassembler: Now aborts immediately upon detection of an unknown AML opcode. The AML parser has no real way to recover from this, and can result in the creation of an ill-formed parse tree that causes errors later during the disassembly.

All tools: Fixed a problem where the Unix application OSL did not handle control-c correctly. For example, a control-c could incorrectly wake the debugger.

AcpiExec: Improved the Control-C handling and added a handler for segmentation faults (SIGSEGV). Supports both Windows and Unix-like environments.

Reduced the verbosity of the generic unix makefiles. Previously, each compilation displayed the full set of compiler options. This has been eliminated as the options are easily inspected within the makefiles. Each compilation now results in a single



line of output.

-----  
03 March 2017. Summary of changes for version 20170303:

0) ACPICA licensing:

The licensing information at the start of each source code module has been updated. In addition to the Intel license, the dual GPLv2/BSD license has been added for completeness. Now, a single version of the source code should be suitable for all ACPICA customers. This is the major change for this release since it affects all source code modules.

1) ACPICA kernel-resident subsystem:

Fixed two issues with the common asltypes.h header that could cause problems in some environments: (Kim Jung-uk)

Removed typedef for YY\_BUFFER\_STATE ?

Fixes an error with earlier versions of Flex.

Removed use of FILE typedef (which is only defined in stdio.h)

2) iASL Compiler/Disassembler and Tools:

Disassembler: fixed a regression introduced in 20170224. A fix for a memory leak related to resource descriptor tags (names) could fault when the disassembler was generated with 64-bit compilers.

The ASLTS test suite has been updated to implement a new testing architecture. During generation of the suite from ASL source, both the ASL and ASL+ compilers are now validated, as well as the disassembler itself (Erik Schmauss). The architecture executes as follows:

For every ASL source module:

Compile (legacy ASL compilation)

Disassemble the resulting AML to ASL+ source code

Compile the new ASL+ module

Perform a binary compare on the legacy AML and the new ASL+ AML

The ASLTS suite then executes normally using the AML binaries.

-----  
24 February 2017. Summary of changes for version 20170224:

1) ACPICA kernel-resident subsystem:



Interpreter: Fixed two issues with the control method return value auto-repair feature, where an attempt to double-delete an internal object could result in an ACPICA warning (for \_CID repair and others). No fault occurs, however,

because the attempted deletion (actually a release to an internal cache) is detected and ignored via object poisoning.

Debugger: Fixed an AML interpreter mutex issue during the single stepping of control methods. If certain debugger commands are executed during stepping, a mutex acquire/release error could occur. Lv Zheng.

Fixed some issues generating ACPICA with the Intel C compiler by restoring the original behavior and compiler-specific include file in acenv.h. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 141.7K Code, 58.5K Data, 200.2K Total

Debug Version: 207.5K Code, 82.7K Data, 290.2K Total

Previous Release:

Non-Debug Version: 137.4K Code, 52.6K Data, 190.0K Total

Debug Version: 201.5K

Code, 82.2K Data, 283.7K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: A preliminary version of a new ASL-to-ASL+ conversion tool has been designed, implemented, and included in this release. The key feature of this utility is that the original comments within the input ASL file are preserved during the conversion process, and included within the converted ASL+ file -- thus creating a transparent conversion of existing ASL files to ASL+ (ASL 2.0). Erik Schmauss.

Usage: `iasl -ca <ASL-filename> // Output is a .dsl file with converted code`

iASL/Disassembler: Improved the detection and correct disassembly of Switch/Case operators. This feature detects sequences of if/elseif/else operators that originated from ASL Switch/Case/Default operators and emits the original operators. David Box.

iASL: Improved the IORT ACPI table support in the following areas. Lv



Zheng:

Clear MappingOffset if the MappingCount is zero.

Fix the disassembly of the

SMMU GSU interrupt offset.

Update the template file for the IORT table.

Disassembler: Enhanced the detection and disassembly of resource template/descriptor within a Buffer object. An EndTag descriptor is now required to have a zero second byte, since all known ASL compilers emit this. This helps eliminate incorrect decisions when a buffer is disassembled (false positives on resource templates).

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19 January 2017. Summary of changes for version 20170119:

1) General ACPICA software:

Entire source code base: Added the 2017 copyright to all source code legal/licensing module headers and utility/tool signons. This includes the standard Linux dual-license header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, all ACPICA utilities, and the ACPICA test suite.

2) iASL Compiler/Disassembler and Tools:

iASL: Removed/fixed an inadvertent remark when a method argument containing a reference is used as a target operand within the method (and never used as a simple argument), as in the example below. Jeffrey Hugo.

```
dsdt.asl 1507: Store(0x1, Arg0)
Remark 2146 -      ^ Method Argument is never used (Arg0)
```

All tools: Removed the bit width of the compiler that generated the tool from the common signon for all user space tools. This proved to be confusing and unnecessary. This includes similar removal of `HARDWARE_NAME` from the generic makefiles (Thomas Petazzoni). Example below.

Old:

ASL+ Optimizing Compiler version 20170119-32

ASL+ Optimizing Compiler version 20170119-64

New:

ASL+ Optimizing Compiler version 20170119

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1) ACPICA kernel-resident subsystem:

AML Debugger: Implemented a new mechanism to simplify and enhance debugger integration into all environments, including kernel debuggers and user-space utilities, as well as remote debug services. This mechanism essentially consists of new OSL interfaces to support debugger initialization/termination, as well as wait/notify interfaces to perform the debugger handshake with the host. Lv Zheng.

New OSL interfaces:

- AcpiOsInitializeDebugger (void)
- AcpiOsTerminateDebugger (void)
- AcpiOsWaitCommandReady (void)
- AcpiOsNotifyCommandComplete (void)

New OS services layer:

- osgndbg.c -- Example implementation, and used for AcpiExec

Update for Generic Address Space (GAS) support: Although the AccessWidth and/or BitOffset fields of the GAS are not often used, this change now fully supports these fields. This affects the internal support for FADT registers, registers in other ACPI data tables, and the AcpiRead and AcpiWrite public interfaces. Lv Zheng.

Sleep support: In order to simplify integration of ACPI sleep for the various host operating systems, a new OSL interface has been introduced. AcpiOsEnterSleep allows the host to perform any required operations before the final write to the sleep control register(s) is performed by ACPICA. Lv Zheng.

New OSL interface:

- AcpiOsEnterSleep(SleepState, RegisterAValue, RegisterBValue)

Called from these internal interfaces:

- AcpiHwLegacySleep
- AcpiHwExtendedSleep

EFI support: Added a very small EFI/ACPICA example application. Provides a simple demo for EFI integration, as well as assisting with resolution of issues related to customer ACPICA/EFI integration. Lv Zheng. See:

- source/tools/efihello/efihello.c



Local C library: Implemented several new functions to enhance ACPICA portability, for environments where these clib functions are not available (such as EFI). Lv Zheng:

- putchar
- getchar
- strpbrk
- strtok
- memmove

Fixed a regression where occasionally a valid resource descriptor was incorrectly detected as invalid at runtime, and a AE\_AML\_NO\_RESOURCE\_END\_TAG was returned.

Fixed a problem with the recently implemented support that enables control method invocations as Target operands to many ASL operators. Warnings of this form: "Needed type [Reference], found [Processor]" were seen at runtime for some method invocations.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 141.5K Code, 58.5K Data, 200.0K Total

Debug Version: 201.7K Code, 82.7K Data, 284.4K Total

Previous Release:

Non-Debug Version: 140.5K Code, 58.5K Data, 198.9K Total

Debug Version: 201.3K Code, 82.7K Data, 284.0K Total

## 2) iASL Compiler/Disassembler and Tools:

Disassembler: Enhanced output by adding the capability to detect and disassemble ASL Switch/Case statements back to the original ASL source code instead of if/else blocks. David Box.

AcpiHelp:

Split a large file into separate files based upon functionality/purpose. New files are:

- ahaml.c
- ahasl.c

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17 November 2016. Summary of changes for version 20161117:



## 1) ACPICA kernel-resident subsystem:

Table Manager: Fixed a regression introduced in 20160729, "FADT support cleanup". This was an attempt to remove all references in the source to the FADT version 2, which never was a legal version number. It was skipped because it was an early version of 64-bit support that was eventually abandoned for the current 64-bit support.

Interpreter: Fixed a problem where runtime implicit conversion was incorrectly disabled for the ASL operators below. This brings the behavior into compliance with the ACPI specification:

- FromBCD
- ToBCD
- ToDecimalString
- ToHexString
- ToInteger
- ToBuffer

Table Manager: Added a new public interface, AcpiPutTable, used to release and free an ACPI table returned by AcpiGetTable and related interfaces. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

### Current Release:

Non-Debug Version: 140.5K Code, 58.5K Data, 198.9K Total

Debug Version: 201.3K Code, 82.7K Data, 284.0K Total

### Previous Release:

Non-Debug Version: 140.4K Code, 58.1K Data, 198.5K Total

Debug Version: 200.7K Code, 82.1K Data, 282.8K Total

## 2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a regression for disassembly of Resource Template. Detection of templates in the AML stream missed some types of templates.

iASL: Fixed a problem where an Access Size error was returned for the PCC address space when the AccessSize of the GAS register is greater than a DWORD. Hoan Tran.

iASL: Implemented several grammar changes for the operators below. These

changes are slated for the next version of the ACPI specification:



RefOf - Disallow method invocation as an operand  
CondRefOf - Disallow method invocation as an operand  
DerefOf - Disallow operands that use the result from operators  
that

do not return a reference (Changed TermArg to  
SuperName).

iASL: Control method invocations are now allowed for Target operands, as  
per the ACPI specification. Removed error for using a control method  
invocation as a Target operand.

Disassembler: Improved detection of Resource Templates, Unicode, and  
Strings within Buffer objects. These subtypes do not contain a specific  
opcode to indicate the originating ASL code, and they must be detected by  
other means within the disassembler.

iASL: Implemented an optimization improvement for 32-bit ACPI tables  
(DSDT/SSDT). For the 32-bit case only, compute the optimum integer opcode  
only after 64-bit to 32-bit truncation. A truncation warning message is

still emitted, however.

AcpiXtract: Implemented handling for both types of line terminators (LF  
or CR/LF) so that it can accept AcpiDump output files from any system.  
Peter Wu.

AcpiBin: Added two new options for comparing AML files:  
-a: compare and display ALL mismatches  
-o: start compare at this offset into the second file

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30 September 2016. Summary of changes for version 20160930:

#### 1) ACPICA kernel-resident subsystem:

Fixed a regression in the internal AcpiTbFindTable function where a non  
AE\_OK exception could inadvertently be returned even if the function did  
not fail. This problem affects the following operators:

DataTableRegion  
LoadTable

Fixed a regression in the LoadTable operator where a load to any  
namespace location other than the root no longer worked properly.

Increased the maximum loop count value that will result in the  
AE\_AML\_INFINITE\_LOOP exception. This is a mechanism that is intended to  
prevent infinite



loops within the AML interpreter and thus the host OS kernel. The value is increased from 0xFFFF to 0xFFFFF loops (65,535 to 1,048,575).

Moved the `AcpiGbl_MaxLoopIterations` configuration variable to the public `acpixf.h` file. This allows hosts to easily configure the maximum loop count at runtime.

Removed an illegal character in the `strtoul64.c` file. This character caused errors with some C compilers.

**Example Code and Data Size:** These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

**Current Release:**

Non-Debug Version: 140.4K Code, 58.1K Data, 198.5K Total

Debug Version: 200.7K Code, 82.1K Data, 282.8K Total

**Previous Release:**

Non-Debug Version: 140.0K Code, 58.1K Data, 198.1K Total

Debug Version: 200.3K Code, 82.1K Data, 282.4K Total

## 2) iASL Compiler/Disassembler and Tools:

**Disassembler:**

Fixed a problem with the conversion of `Else{If{` blocks into the simpler ASL `ElseIf` keyword. During the conversion, a trailing `If` block could be lost and missing from the disassembled output.

iASL: Fixed a missing parser rule for the `ObjectType` operator. For ASL+, the missing rule caused a parse error when using the `Index` operator as an operand to `ObjectType`. This construct now compiles properly. Example:  
`ObjectType(PKG1[4]).`

iASL: Correctly handle unresolved symbols in the hardware map file (`-lm` option). Previously, unresolved symbols could cause a protection fault. Such symbols are now marked as unresolved in the map file.

iASL: Implemented support to allow control method invocations as an operand to the ASL `DeRefOf` operator. Example:  
`DeRefOf(MTH1(Local0))`

Disassembler: Improved support for the `ToPLD` ASL macro. Detection of a possible `_PLD` buffer now includes examination of both the normal buffer length (16 or 20) as well as the surrounding AML package



length.

Disassembler: Fixed a problem with the decoding of complex expressions within the Divide operator for ASL+. For the case where both the quotient and remainder targets are specified, the entire statement cannot be disassembled. Previously, the output incorrectly contained a mix of ASL- and ASL+ operators. This mixed statement causes a syntax error when compiled. Example:

Divide (Add (INT1, 6), 128, RSLT, QUOT) // was incorrectly disassembled to:

Divide (INT1 + 6, 128, RSLT, QUOT)

iASL/Tools: Added support to process AML and non-AML ACPI tables consistently. For the disassembler and AcpiExec, allow all types of ACPI tables (AML and data tables). For the iASL -e option, allow only AML tables (DSDT/SSDT).

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31 August 2016. Summary of changes for version 20160831:

#### 1) ACPICA kernel-resident subsystem:

Improve support for the so-called "module-level code", which is defined to be math, logical and control AML opcodes that appear outside of any control method. This change improves the support by adding more opcodes that can be executed in the manner. Some other issues have been solved, and the ASL grammar changes to support such code under all scope operators (Device, etc.) are complete. Lv Zheng.

UEFI support: these OSL functions have been implemented. This is an additional step toward supporting the AcpiExec utility natively (with full hardware access) under UEFI. Marcelo Ferreira.

AcpiOsReadPciConfiguration  
AcpiOsWritePciConfiguration

Fixed a possible mutex error during control method auto-serialization. Lv Zheng.

Updated support for the Generic Address Structure by fully implementing all GAS fields when a 32-bit address is expanded to a 64-bit GAS. Lv Zheng.

Updated the return value for the internal \_OSI method. Instead of 0xFFFFFFFF, the "Ones" value is now returned, which is 0xFFFFFFFFFFFFFFFF for 64-bit ACPI tables. This fixes an incompatibility with other ACPI implementations,



and will be reflected and clarified in the next version of the ACPI specification.

Implemented two new table events that can be passed to an ACPICA table handler. These events are used to indicate a table installation or uninstallation. These events are used in addition to existed table load and unload events. Lv Zheng.

Implemented a cleanup for all internal string-to-integer conversions. Consolidate multiple versions of this functionality and limit possible bases to either 10 or 16 to simplify the code. Adds a new file, utstrtoul64.

Cleanup the inclusion order of the various compiler-specific headers. This simplifies build configuration management. The compiler-specific headers are now split out from the host-specific headers. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 140.1K Code, 58.1K Data, 198.1K Total

Debug Version: 200.3K Code, 82.1K Data, 282.4K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL/AcpiExec: Added a command line option to display the build date/time of the tool (-vd). This can be useful to verify that the correct version of the tools are being used.

AML Debugger: Implemented a new subcommand ("execute predef") to execute all predefined control methods and names within the current namespace. This can be useful for debugging problems with ACPI tables and the ACPI namespace.

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29 July 2016. Summary of changes for version 20160729:

### 1) ACPICA kernel-resident subsystem:

Implemented basic UEFI support for the various ACPICA tools. This includes:

- 1) An OSL to implement the various AcpiOs\* interfaces on UEFI.



- 2) Support to obtain the ACPI tables on UEFI.
- 3) Local implementation of required C library functions not available on UEFI.
- 4) A front-end (main) function for the tools for UEFI-related initialization.

The initial deployment of this support is the AcpiDump utility executing as an UEFI application via EDK2 (EDKII, "UEFI Firmware Development Kit"). Current environments supported are Linux/Unix. MSVC generation is not supported at this time. See the generate/efi/README file for build instructions. Lv Zheng.

Future plans include porting the AcpiExec utility to execute natively on the platform with I/O and memory access. This will allow viewing/dump of the platform namespace and native execution of ACPI control methods that access the actual hardware. To fully implement this support, the OSL functions below must be implemented with UEFI interfaces. Any community help in the implementation of these functions would be appreciated:

- AcpiOsReadPort
- AcpiOsWritePort
- AcpiOsReadMemory
- AcpiOsWriteMemory
- AcpiOsReadPciConfiguration
- AcpiOsWritePciConfiguration

#### Restructured

and standardized the C library configuration for ACPICA, resulting in the various configuration options below. This includes a global restructuring of the compiler-dependent and platform-dependent include files. These changes may affect the existing platform-dependent configuration files on some hosts. Lv Zheng.

The current C library configuration options appear below. For any issues, it may be helpful to examine the existing compiler-dependent and platform-dependent files as examples. Lv Zheng.

#### 1) Linux kernel:

ACPI\_USE\_STANDARD\_HEADERS=n in order not to use system-provided C library.

ACPI\_USE\_SYSTEM\_CLIBRARY=y in order not to use ACPICA mini C library.

#### 2) Unix/Windows/BSD applications:

ACPI\_USE\_STANDARD\_HEADERS=y in order to use system-provided C library.

ACPI\_USE\_SYSTEM\_CLIBRARY=y in order not to use ACPICA mini C library.

#### 3) UEFI applications:

ACPI\_USE\_STANDARD\_HEADERS=n in order not to use system-provided C library.



ACPI\_USE\_SYSTEM\_LIBRARY=n  
in order to use ACPICA mini C library.  
4) UEFI applications (EDK2/StdLib):  
ACPI\_USE\_STANDARD\_HEADERS=y in order to use EDK2 StdLib C library.  
ACPI\_USE\_SYSTEM\_LIBRARY=y in order to use EDK2 StdLib C library.

AML interpreter: "module-level code" support. Allows for execution of so-called "executable" AML code (math/logical operations, etc.) outside of control methods not just at the module level (top level) but also within any scope declared outside of a control method - Scope{ }, Device{ }, Processor{ }, PowerResource{ }, and ThermalZone{ }. Lv Zheng.

Simplified the configuration of the "maximum AML loops" global option by adding a global public variable, "AcpiGbl\_MaxLoopIterations" which can be modified at runtime.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

#### Current Release:

Non-Debug Version: 139.1K Code, 22.9K Data, 162.0K Total  
Debug Version: 199.0K Code, 81.8K Data, 280.8K Total

#### 2) iASL Compiler/Disassembler and Tools:

iASL: Add full support for the RASF ACPI table (RAS Features Table). Includes disassembler, data table compiler, and header support.

iASL Expand "module-level code" support. Allows for compilation/disassembly of so-called "executable" AML code (math/logical operations, etc.) outside of control methods not just at the module level (top level) but also within any scope declared outside of a control method - Scope{ }, Device{ }, Processor{ }, PowerResource{ }, and ThermalZone{ }.

AcpiDump: Added support for dumping all SSDTs on newer versions of Windows. These tables are now easily available -- SSDTs are not available through the registry on older versions.

-----  
27 May 2016. Summary of changes for version 20160527:



#### 1) ACPICA kernel-resident subsystem:

Temporarily

reverted the new arbitrary bit length/alignment support in AcpiHwRead/AcpiHwWrite for the Generic Address Structure. There have been a number of regressions with the new code that need to be fully resolved and tested before this support can be finally integrated into ACPICA. Apologies for any inconveniences these issues may have caused.

The ACPI message macros are not configurable (ACPI\_MSG\_ERROR, ACPI\_MSG\_EXCEPTION, ACPI\_MSG\_WARNING, ACPI\_MSG\_INFO, ACPI\_MSG\_BIOS\_ERROR, and ACPI\_MSG\_BIOS\_WARNING). Lv Zheng.

Fixed a couple of GCC warnings associated with the use of the -Wcast-qual option. Adds a new return macro, return\_STR. Junk-uk Kim.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 136.8K Code, 51.6K Data, 188.4K

Total

Debug Version: 201.5K Code, 82.2K Data, 283.7K Total

Previous Release:

Non-Debug Version: 137.4K Code, 52.6K Data, 190.0K Total

Debug Version: 200.9K Code, 82.2K Data, 283.1K Total

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22 April 2016. Summary of changes for version 20160422:

#### 1) ACPICA kernel-resident subsystem:

Fixed a regression in the GAS (generic address structure) arbitrary bit support in AcpiHwRead/AcpiHwWrite. Problem could cause incorrect behavior and incorrect return values. Lv Zheng. ACPICA BZ 1270.

ACPI 6.0: Added support for new/renamed resource macros. One new argument was added to each of these macros, and the original name has been deprecated. The AML disassembler will always disassemble to the new names. Support for the new macros was added to iASL, disassembler, resource manager, and the acpihelp utility. ACPICA BZ 1274.

I2cSerialBus -> I2cSerialBusV2

SpiSerialBus -> SpiSerialBusV2

UartSerialBus -> UartSerialBusV2



## ACPI

6.0: Added support for a new integer field that was appended to the package object returned by the `_BIX` method. This adds iASL compile-time and AML runtime error checking. ACPICA BZ 1273.

ACPI 6.1: Added support for a new PCCT subtable, "HW-Reduced Comm Subspace Type2" (Headers, Disassembler, and data table compiler).

Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

### Current Release:

Non-Debug Version: 137.4K Code, 52.6K Data, 190.0K Total

Debug Version: 201.5K Code, 82.2K Data, 283.7K Total

### Previous Release:

Non-Debug Version: 137.1K Code, 51.5K Data, 188.6K Total

Debug Version: 201.0K Code, 82.0K Data, 283.0K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented an ASL grammar extension to allow/enable executable "module-level code" to be created and executed under the various operators that create new scopes. This type of AML code is already supported in all known AML interpreters, and the grammar change will appear in the next version of the ACPI specification. Simplifies the conditional runtime creation of named objects under these object types:

Device  
PowerResource  
Processor  
Scope  
ThermalZone

iASL: Implemented a new ASL extension, a "For" loop macro to add greater ease-of-use to the ASL language. The syntax is similar to the corresponding C operator, and is implemented with the existing AML While opcode -- thus requiring no changes to existing AML interpreters.

For (Initialize, Predicate, Update) {TermList}

### Grammar:

ForTerm :=

For (



```
    Initializer // Nothing | TermArg => ComputationalData
    Predicate   // Nothing | TermArg => ComputationalData
    Update      // Nothing | TermArg => ComputationalData
  ) {TermList}
```

iASL:

The `_HID/_ADR` detection and validation has been enhanced to search under conditionals in order to allow these objects to be conditionally created at runtime.

iASL: Fixed several issues with the constant folding feature. The improvement allows better detection and resolution of statements that can be folded at compile time. ACPICA BZ 1266.

iASL/Disassembler: Fixed a couple issues with the `Else{If{ }...}` conversion to the ASL `ElseIf` operator where incorrect ASL code could be generated.

iASL/Disassembler: Fixed a problem with the ASL+ code disassembly where sometimes an extra (and extraneous) set of parentheses were emitted for some combinations of operators. Although this did not cause any problems with recompilation of the disassembled code, it made the code more difficult to read. David Box. ACPICA BZ 1231.

iASL: Changed to ignore the unreferenced detection for predefined names of resource descriptor elements, when the resource descriptor is created/defined within a control method.

iASL: Disassembler: Fix a possible fault with externally declared Buffer objects.

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18 March 2016. Summary of changes for version 20160318:

1) ACPICA kernel-resident subsystem:

Added support for arbitrary bit lengths and bit offsets for registers defined by the Generic Address Structure. Previously, only aligned bit lengths of 8/16/32/64 were supported. This was sufficient for many years, but recently some machines have been seen that require arbitrary bit-level support. ACPICA BZ 1240. Lv Zheng.

Fixed an issue where the `\_SB._INI` method sometimes must be evaluated before any `_REG` methods are evaluated. Lv Zheng.

Implemented several changes related to ACPI table support



(Headers/Disassembler/TableCompiler):

NFIT: For ACPI 6.1, updated to add some additional new fields and constants.

FADT: Updated a warning message and set compliance to ACPI 6.1 (Version 6).

DMAR: Added new constants per the 10/2014 DMAR spec.

IORT:

Added new subtable per the 10/2015 IORT spec.

HEST: For ACPI 6.1, added new constants and new subtable.

DBG2: Added new constants per the 12/2015 DBG2 spec.

FPDT: Fixed several incorrect fields, add the FPDT boot record structure.

ACPICA BZ 1249.

ERST/EINJ: Updated disassembler with new "Execute Timings" actions.

Updated header support for the DMAR table to match the current version of the related spec.

Added extensions to the ASL Concatenate operator to allow any ACPI object to be passed as an operand. Any object other than Integer/String/Buffer simply returns a string containing the object type. This extends the usefulness of the Printf macros. Previously, Concatenate would abort the control method if a non-data object was encountered.

ACPICA source code: Deployed the C "const" keyword across the source code where appropriate. ACPICA BZ 732. Joerg Sonnenberger (NetBSD).

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft

Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 137.1K Code, 51.5K Data, 188.6K Total

Debug Version: 201.0K Code, 82.0K Data, 283.0K Total

Previous Release:

Non-Debug Version: 136.2K Code, 51.5K Data, 187.7K Total

Debug Version: 200.4K Code, 82.0K Data, 282.4K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Improved the heuristic used to determine the number of arguments for an externally defined control method (a method in another table). Although this is an improvement, there is no deterministic way to "guess" the number of method arguments. Only the ACPI 6.0 External opcode will completely solve this problem as it is deployed (automatically) in newer BIOS code.



iASL/Disassembler: Fixed an ordering issue for emitted External() ASL statements that could cause errors when the disassembled file is compiled. ACPICA BZ 1243. David Box.

iASL: Fixed a regression caused by the merger of the two versions of the local strtoul64. Because of a dependency on a global variable, strtoul64 could return an error for integers greater than a 32-bit value. ACPICA BZ 1260.

iASL: Fixed a regression where a fault could occur for an ASL Return statement if it invokes a control method that is not resolved. ACPICA BZ 1264.

AcpiXtract: Improved input file validation: detection of binary files and non-acpidump text files.

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12 February 2016. Summary of changes for version 20160212:

1) ACPICA kernel-resident subsystem:

Implemented full support for the ACPI 6.1 specification (released in January). This version of the specification is available at:  
<http://www.uefi.org/specifications>

Only a relatively small number of changes were required in ACPICA to support ACPI 6.1, in these areas:

- New predefined names
- New \_HID values
- A new subtable for HEST
- A few other header changes for new values

Ensure \\_SB\\_INI is executed before any \_REG methods are executed. There appears to be existing BIOS code that relies on this behavior. Lv Zheng.

Reverted a change made in version 20151218 which enabled method invocations to be targets of various ASL operators (SuperName and Target grammar elements). While the new behavior is supported by the ACPI specification, other AML interpreters do not support this behavior and never will. The ACPI specification will be updated for ACPI 6.2 to remove this support. Therefore, the change was reverted to the original ACPICA behavior.

ACPICA now supports the GCC 6 compiler.



Current Release: (Note: build changes increased sizes)

Non-Debug Version: 136.2K Code, 51.5K Data, 187.7K Total

Debug Version: 200.4K Code, 82.0K Data, 282.4K Total

Previous Release:

Non-Debug Version: 102.7K Code, 28.4K Data, 131.1K Total

Debug Version: 200.4K Code, 81.9K Data, 282.3K Total

2)

iASL Compiler/Disassembler and Tools:

Completed full support for the ACPI 6.0 External() AML opcode. The compiler emits an external AML opcode for each ASL External statement. This opcode is used by the disassembler to assist with the disassembly of external control methods by specifying the required number of arguments for the method. AML interpreters do not use this opcode. To ensure that interpreters do not even see the opcode, a block of one or more external opcodes is surrounded by an "If(0)" construct. As this feature becomes commonly deployed in BIOS code, the ability of disassemblers to correctly disassemble AML code will be greatly improved. David Box.

iASL: Implemented support for an optional cross-reference output file.

The -lx option will create a the cross-reference file with the suffix "xrf". Three different types of cross-reference are created in this file:

- List of object references made from within each control method
- Invocation (caller) list for each user-defined control method
- List of references to each non-method object in the namespace

iASL: Method invocations as ASL Target operands are now disallowed and flagged as errors in preparation for ACPI 6.2 (see the description of the problem above).

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8 January 2016. Summary of changes for version 20160108:

1) ACPICA kernel-resident subsystem:

Updated all ACPICA copyrights and signons to 2016: Added the 2016 copyright to all source code module headers and utility/tool signons.

This includes the standard Linux dual-license header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, all ACPICA utilities, and the ACPICA test suite.

Fixed a regression introduced in version 20151218 concerning the execution of so-called module-level ASL/AML code. Namespace objects created under a module-level If() construct were not properly/fully entered into the namespace and could cause an interpreter fault when



accessed.

#### Example

Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

#### Current Release:

Non-Debug Version: 102.7K Code, 28.4K Data, 131.1K Total

Debug Version: 200.4K Code, 81.9K Data, 282.4K Total

#### Previous Release:

Non-Debug Version: 102.6K Code, 28.4K Data, 131.0K Total

Debug Version: 200.3K Code, 81.9K Data, 282.3K Total

## 2) iASL Compiler/Disassembler and Tools:

Fixed a problem with the compilation of the GpioIo and GpioInt resource descriptors. The \_PIN field name was incorrectly defined to be an array of 32-bit values, but the \_PIN values are in fact 16 bits each. This would cause incorrect bit width warnings when using Word (16-bit) fields to access the descriptors.

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18 December 2015. Summary of changes for version 20151218:

### 1)

ACPICA kernel-resident subsystem:

Implemented per-AML-table execution of "module-level code" as individual ACPI tables are loaded into the namespace during ACPICA initialization. In other words, any module-level code within an AML table is executed immediately after the table is loaded, instead of batched and executed after all of the tables have been loaded. This provides compatibility with other ACPI implementations. ACPICA BZ 1219. Bob Moore, Lv Zheng, David Box.

To fully support the feature above, the default operation region handlers for the SystemMemory, SystemIO, and PCI\_Config address spaces are now installed before any ACPI tables are loaded. This enables module-level code to access these address spaces during the table load and module-level code execution phase. ACPICA BZ 1220. Bob Moore, Lv Zheng, David Box.

Implemented several changes to the internal \_REG support in conjunction with the changes above. Also, changes to the AcpiExec/AcpiNames/Examples



utilities for the changes above. Although these tools were changed, host operating systems that simply use the default handlers for SystemMemory, SystemIO, and PCI\_Config spaces should not require any update. Lv Zheng.

For example, in the code below, DEV1 is conditionally added to the namespace by the DSDT via module-level code that accesses an operation region. The SSDT references DEV1 via the Scope operator. DEV1 must be created immediately after the DSDT is loaded in order for the SSDT to successfully reference DEV1. Previously, this code would cause an AE\_NOT\_EXIST exception during the load of the SSDT. Now, this code is fully supported by ACPICA.

```
DefinitionBlock ("", "DSDT", 2, "Intel", "DSDT1", 1)
{
    OperationRegion (OPR1, SystemMemory, 0x400, 32)
    Field (OPR1, AnyAcc, NoLock, Preserve)
    {
        FLD1, 1
    }
    If (FLD1)
    {
        Device (\DEV1)
        {
        }
    }
}
DefinitionBlock ("",
"SSDT", 2, "Intel", "SSDT1", 1)
{
    External (\DEV1, DeviceObj)
    Scope (\DEV1)
    {
    }
}
```

Fixed an AML interpreter problem where control method invocations were not handled correctly when the invocation was itself a SuperName argument to another ASL operator. In these cases, the method was not invoked.

ACPICA BZ 1002. Affects the following ASL operators that have a SuperName argument:

- Store
- Acquire, Wait
- CondRefOf, RefOf
- Decrement, Increment
- Load, Unload
- Notify
- Signal, Release, Reset



## SizeOf

Implemented automatic String-to-ObjectReference conversion support for packages returned by predefined names (such as \_DEP). A common BIOS error is to add double quotes around an ObjectReference namepath, which turns the reference into an unexpected string object. This support detects the problem and corrects it before the package is returned to the caller that invoked the method. Lv Zheng.

Implemented extensions to the Concatenate operator. Concatenate now accepts any type of object, it is not restricted to simply Integer/String/Buffer. For objects other than these 3 basic data types, the argument is treated as a string containing the name of the object type. This expands the utility of Concatenate and the Printf/Fprintf macros. ACPICA BZ 1222.

Cleaned up the output of the ASL Debug object. The timer() value is now optional and no longer emitted by default. Also, the basic data types of Integer/String/Buffer are simply emitted as their values, without a data type string -- since the data type is obvious from the output. ACPICA BZ 1221.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

### Current Release:

Non-Debug Version: 102.6K Code, 28.4K Data, 131.0K Total

Debug Version:

200.3K Code, 81.9K Data, 282.3K Total

### Previous Release:

Non-Debug Version: 102.0K Code, 28.3K Data, 130.3K Total

Debug Version: 199.6K Code, 81.8K Data, 281.4K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Fixed some issues with the ASL Include() operator. This operator was incorrectly defined in the iASL parser rules, causing a new scope to be opened for the code within the include file. This could lead to several issues, including allowing ASL code that is technically illegal and not supported by AML interpreters. Note, this does not affect the related #include preprocessor operator. ACPICA BZ 1212.

iASL/Disassembler: Implemented support for the ASL ElseIf operator. This operator is essentially an ASL macro since there is no AML opcode



associated with it. The code emitted by the iASL compiler for ElseIf is an Else opcode followed immediately by an If opcode. The disassembler will now emit an ElseIf if it finds an Else immediately followed by an If.

This simplifies the decoded ASL, especially for deeply nested If..Else and large Switch constructs. Thus, the disassembled code more closely follows the original source ASL. ACPICA BZ 1211. Example:

Old disassembly:

```
Else
{
    If (Arg0 == 0x02)
    {
        Local0 = 0x05
    }
}
```

New disassembly:

```
ElseIf (Arg0 == 0x02)
{
    Local0 = 0x05
}
```

AcpiExec: Added support for the new module level code behavior and the early region installation. This required a small change to the initialization, since AcpiExec must install its own operation region handlers.

AcpiExec: Added support to make the debug object timer optional. Default is timer disabled. This cleans up the debug object output -- the timer data is rarely used.

AcpiExec: Multiple ACPI tables are now loaded in the order that they appear on the command line. This can be important when there are interdependencies/references between the tables.

iASL/Templates. Add support to generate template files with multiple SSDTs within a single output file. Also added command line support to specify the number of SSDTs (in addition to a single DSDT). ACPICA BZ 1223, 1225.

-----  
24 November 2015. Summary of changes for version 20151124:

1) ACPICA kernel-resident subsystem:



Fixed a possible regression for a previous update to FADT handling. The FADT no longer has a fixed table ID, causing some issues with code that was hardwired to a specific ID. Lv Zheng.

Fixed a problem where the method auto-serialization could interfere with the current SyncLevel. This change makes the auto-serialization support transparent to the SyncLevel support and management.

Removed support for the \_SUB predefined name in AcpiGetObjectInfo. This interface is intended for early access to the namespace during the initial namespace device discovery walk. The \_SUB method has been seen to access operation regions in some cases, causing errors because the operation regions are not fully initialized.

AML Debugger: Fixed some issues with the terminate/quit/exit commands that can cause faults. Lv Zheng.

AML Debugger: Add thread ID support so that single-step mode only applies to the AML Debugger thread. This prevents runtime errors within some kernels. Lv Zheng.

Eliminated extraneous warnings from AcpiGetSleepTypeData. Since the \_Sx methods that are invoked by this interface are optional, removed warnings emitted for the case where one or more of these methods do not exist. ACPICA BZ 1208, original change by Prarit Bhargava.

Made a major pass through the entire ACPICA source code base to standardize formatting that has diverged a bit over time. There are no functional changes, but this will of course cause quite a few code differences from the previous ACPICA release.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 102.0K Code, 28.3K Data, 130.3K Total

Debug Version: 199.6K Code, 81.8K Data, 281.4K Total

Previous Release:

Non-Debug Version: 101.7K Code, 27.9K Data, 129.6K Total

Debug Version: 199.3K Code, 81.4K Data, 280.7K Total

2) iASL Compiler/Disassembler and Tools:



iASL/acpiexec/acpixtract/disassembler: Added support to allow multiple definition blocks within a single ASL file and the resulting AML file. Support for this type of file was also added to the various tools that use binary AML files: acpiexec, acpixtract, and the AML disassembler. The example code below shows two definition blocks within the same file:

```
DefinitionBlock ("dsdt.aml", "DSDT", 2, "Intel", "Template",
0x12345678)
{
}
DefinitionBlock ("", "SSDT", 2, "Intel", "Template", 0xABCDEF01)

{
}
```

iASL: Enhanced typechecking for the Name() operator. All expressions for the value of the named object must be reduced/folded to a single constant at compile time, as per the ACPI specification (the AML definition of Name()).

iASL: Fixed some code indentation issues for the -ic and -ia options (C and assembly headers). Now all emitted code correctly begins in column 1.

iASL: Added an error message for an attempt to open a Scope() on an object defined in an SSDT. The DSDT is always loaded into the namespace first, so any attempt to open a Scope on an SSDT object will fail at runtime.

-----  
30 September 2015. Summary of changes for version 20150930:

1) ACPICA kernel-resident subsystem:

Debugger: Implemented several changes and bug fixes to assist support for the in-kernel version of the AML debugger. Lv Zheng.

- Fix the "predefined" command for in-kernel debugger.
- Do not enter debug command loop for the help and version commands.
- 

Disallow "execute" command during execution/single-step of a method.

Interpreter: Updated runtime typechecking for all operators that have target operands. The operand is resolved and validated that it is legal. For example, the target cannot be a non-data object such as a Device, Mutex, ThermalZone, etc., as per the ACPI specification.

Debugger: Fixed the double-mutex user I/O handshake to work when local deadlock detection is enabled.



Debugger: limited display of method locals and arguments (LocalX and ArgX) to only those that have actually been initialized. This prevents lines of extraneous output.

Updated the definition of the NFIT table to correct the bit polarity of one flag: ACPI\_NFIT\_MEM\_ARMED --> ACPI\_NFIT\_MEM\_NOT\_ARMED

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 101.7K Code, 27.9K Data, 129.6K Total

Debug Version: 199.3K Code, 81.4K Data, 280.7K Total

Previous Release:

Non-Debug Version: 101.3K Code, 27.7K Data, 129.0K Total

Debug Version: 198.6K Code, 80.9K Data, 279.5K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Improved the compile-time typechecking for operands of many of the ASL operators:

-- Added an option to disable compiler operand/operator typechecking (-ot).

-- For the following operators, the TermArg operands are now validated when possible to be Integer data objects: BankField, OperationRegion, DataTableRegion, Buffer, and Package.

-- Store (Source, Target): Both the source and target operands are resolved and checked that the operands are both legal. For example, neither operand can be a non-data object such as a Device, Mutex, ThermalZone, etc. Note, as per the ACPI specification, the CopyObject operator can be used to store an object to any type of target object.

-- Store (Source, Target): If the source is a Package object, the target must be a Package object, LocalX, ArgX, or Debug. Likewise, if the target is a Package, the source must also be a Package.

-- Store (Source, Target): A warning is issued if the source and target resolve to the identical named object.



-- Store (Source, <method invocation>): An error is generated for the target method invocation, as this construct is not supported by the AML interpreter.

-- For all ASL math and logic operators, the target operand must be a data object (Integer, String, Buffer, LocalX, ArgX, or Debug). This includes the function return value also.

-- External declarations are also included in the typechecking where possible. External objects defined using the UnknownObj keyword cannot be typechecked, however.

iASL and Disassembler: Added symbolic (ASL+) support for the ASL Index operator:

- Legacy code: Index(PKG1, 3)

- New ASL+ code: PKG1[3]

This

completes the ACPI 6.0 ASL+ support as it was the only operator not supported.

iASL: Fixed the file suffix for the preprocessor output file (.i). Two spaces were inadvertently appended to the filename, causing file access and deletion problems on some systems.

ASL Test Suite (ASLTS): Updated the master makefile to generate all possible compiler output files when building the test suite -- thus exercising these features of the compiler. These files are automatically deleted when the test suite exits.

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18 August 2015. Summary of changes for version 20150818:

1) ACPICA kernel-resident subsystem:

Fix a regression for AcpiGetTableByIndex interface causing it to fail. Lv Zheng. ACPICA BZ 1186.

Completed development to ensure that the ACPICA Disassembler and Debugger are fully standalone components of ACPICA. Removed cross-component dependences. Lv Zheng.

The max-number-of-AML-loops is now runtime configurable (previously was compile-time only). This is essentially a loop timeout to force-abort infinite AML loops. ACPCIA BZ 1192.

Debugger: Cleanup output to dump ACPI names and namepaths without any



trailing underscores. Lv Zheng. ACPICA BZ 1135.

Removed unnecessary conditional compilations across the Debugger and Disassembler components where entire modules could be left uncompiled.

The aapits test is deprecated and has been removed from the ACPICA git tree. The test has never been completed and has not been maintained, thus becoming rather useless. ACPICA BZ 1015, 794.

A batch of small changes to close bugzilla and other reports:

- Remove duplicate code for \_PLD processing. ACPICA BZ 1176.
- Correctly cleanup after a ACPI table load failure. ACPICA BZ 1185.
- iASL: Support POSIX yacc again in makefile. Jung-uk Kim.
- ACPI table support: general cleanup and simplification. Lv Zheng, Bob Moore.
- ACPI table support: fix for a buffer read overrun in AcpiTbFindTable. ACPICA BZ 1184.
- Enhance parameter validation for DataTableRegion and LoadTable ASL/AML operators.
- Debugger: Split debugger initialization/termination interfaces. Lv Zheng.
- AcpiExec: Emit OemTableId for SSDTs during the load phase for table identification.
- AcpiExec: Add debug message during \_REG method phase during table load/init.
- AcpiNames: Fix a regression where some output was missing and no longer emitted.
- Debugger: General cleanup and simplification. Lv Zheng.
- Disassembler: Cleanup use of several global option variables. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 101.3K Code, 27.7K Data, 129.0K Total

Debug Version: 198.6K Code, 80.9K Data, 279.5K Total

Previous Release:

Non-Debug Version: 100.9K Code, 24.5K Data, 125.4K Total

Debug Version: 197.8K Code, 81.5K Data, 279.3K Total

## 2) iASL Compiler/Disassembler and Tools:

AcpiExec: Fixed a problem where any more than 32 ACPI tables in the XSDT were not handled properly and caused load errors. Now, properly invoke



and use the ACPICA auto-reallocate mechanism for ACPI table data structures. ACPICA BZ 1188

AcpiNames: Add command-line wildcard support for ACPI table files. ACPICA BZ 1190.

AcpiExec and AcpiNames: Add -l option to load ACPI tables only. For AcpiExec, this means that no control methods (like \_REG/\_INI/\_STA) are executed during initialization. ACPICA BZ 1187, 1189.

iASL/Disassembler: Implemented a prototype "listing" mode that emits AML that corresponds to each disassembled ASL statement, to simplify debugging. ACPICA BZ 1191.

Debugger: Add option to the "objects" command to display a summary of the current namespace objects (Object type and count). This is displayed if the command is entered with no arguments.

AcpiNames: Add  
-x option to specify debug level, similar to AcpiExec.

-----  
17 July 2015. Summary of changes for version 20150717:

1) ACPICA kernel-resident subsystem:

Improved the partitioning between the Debugger and Disassembler components. This allows the Debugger to be used standalone within kernel code without the Disassembler (which is used for single stepping also). This renames and moves one file, dmobject.c to dbject.c. Lv Zheng.

Debugger: Implemented a new command to trace the execution of control methods (Trace). This is especially useful for the in-kernel version of the debugger when file I/O may not be available for method trace output. See the ACPICA reference for more information. Lv Zheng.

Moved all C library prototypes (used for the local versions of these functions when requested) to a new header, acclib.h  
Cleaned up the use of non-ANSI C library functions. These functions are implemented locally in ACPICA. Moved all such functions to a common source file, utnonansi.c

Debugger: Fixed a problem with the "!!" command (get last command executed) where the debugger could enter an infinite loop and eventually crash.



Removed the use of local macros that were used for some of the standard C library functions to automatically cast input parameters. This mostly affected the `is*` functions where the input parameter is defined to be an `int`. This required a few modifications to the main ACPICA source code to provide casting for these functions and eliminate possible compiler warnings for these parameters.

Across the source code, added additional status/error checking to resolve issues discovered by static source code analysis tools such as Coverity.

**Example Code and Data Size:** These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current

Release:

Non-Debug Version: 100.9K Code, 24.5K Data, 125.4K Total

Debug Version: 197.8K Code, 81.5K Data, 279.3K Total

Previous Release:

Non-Debug Version: 100.6K Code, 27.6K Data, 128.2K Total

Debug Version: 196.2K Code, 81.0K Data, 277.2K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a regression where the device map file feature no longer worked properly when used in conjunction with the disassembler. It only worked properly with the compiler itself.

iASL: Implemented a new warning for method LocalX variables that are set but never used (similar to a C compiler such as gcc). This also applies to ArgX variables that are not defined by the parent method, and are instead (legally) used as local variables.

iASL/Preprocessor: Finished the pass-through of line numbers from the preprocessor to the compiler. This ensures that compiler errors/warnings have the correct original line numbers and filenames, regardless of any `#include` files.

iASL/Preprocessor:

Fixed a couple of issues with comment handling and the pass-through of comments to the preprocessor output file (which becomes the compiler input file). Also fixed a problem with `//` comments that appear after a math expression.

iASL: Added support for the TCPA server table to the table compiler and template generator. (The client table was already previously supported)



iASL/Preprocessor: Added a permanent #define of the symbol "\_\_IASL\_\_" to identify the iASL compiler.

Cleaned up the use of the macros NEGATIVE and POSITIVE which were defined multiple times. The new names are ACPI\_SIGN\_NEGATIVE and ACPI\_SIGN\_POSITIVE.

AcpiHelp: Update to expand help messages for the iASL preprocessor directives.

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19 June 2015. Summary of changes for version 20150619:

Two regressions in version 20150616 have been addressed:

Fixes some problems/issues with the C library macro removal (ACPI\_STRLEN, etc.) This update changes ACPICA to only use the standard headers for functions, or the prototypes for the local versions of the C library functions. Across the source code, this required some additional casts for some Clib invocations for portability. Moved all local prototypes to a new file, acclib.h

Fixes several problems with recent changes to the handling of the FACS table that could cause some systems not to boot.

-----  
16 June 2015. Summary of changes for version 20150616:

1) ACPICA kernel-resident subsystem:

Across the entire ACPICA source code base, the various macros for the C library functions (such as ACPI\_STRLEN, etc.) have been removed and replaced by the standard C library names (strlen, etc.) The original purpose for these macros is no longer applicable. This simplification reduces the number of macros used in the ACPICA source code significantly, improving readability and maintainability.

Implemented support for a new ACPI table, the OSDT. This table, the "override" SDT, can be loaded directly by the host OS at boot time. It enables the replacement of existing namespace objects that were installed via the DSDT and/or SSDTs. The primary purpose for this is to replace buggy or incorrect ASL/AML code obtained via the BIOS. The OSDT is slated



for inclusion in a future version of the ACPI Specification. Lv Zheng/Bob Moore.

Added support for systems with (improperly) two FACS tables -- a "32-bit" table (via FADT 32-bit legacy field) and a "64-bit" table (via the 64-bit X field). This change will support both automatically. There continues to be systems found with this issue. This support requires a change to the AcpiSetFirmwareWakingVector interface. Also, a public global variable has been added to allow the host to select which FACS is desired (AcpiGbl\_Use32BitFacsAddresses). See the ACPICA reference for more details Lv Zheng.

Added a new feature to allow for systems that do not contain an FACS. Although this is already supported on hardware-reduced platforms, the feature has been extended for all platforms. The reasoning is that we do not want to abort the entire ACPICA initialization just because the system is seriously buggy and has no FACS.

Fixed a problem where the GUID strings for NFIT tables (in acuuid.h) were not correctly transcribed from the ACPI specification in ACPICA version 20150515.

Implemented support for the \_CLS object in the AcpiGetObjectInfo external interface.

Updated the definitions of the TCPA and TPM2 ACPI tables to the more recent TCG ACPI Specification, December 14, 2014. Table disassembler and compiler also updated. Note: The TCPA "server" table is not supported by the disassembler/table-compiler at this time.

ACPI 6.0: Added definitions for the new GIC version field in the MADT.

Example Code and Data Size: These are the sizes for the OS-independent apcica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 100.6K Code, 27.6K Data, 128.2K Total

Debug Version: 196.2K Code, 81.0K Data, 277.2K Total

Previous Release:

Non-Debug Version: 99.9K Code, 27.5K Data, 127.4K Total

Debug Version: 195.2K Code, 80.8K Data, 276.0K Total

2) iASL Compiler/Disassembler and Tools:



Disassembler: Fixed a problem with the new symbolic operator disassembler where incorrect ASL code could be emitted in some cases for the "non-commutative" operators -- Subtract, Divide, Modulo, ShiftLeft, and ShiftRight. The actual problem cases seem to be rather unusual in common ASL code, however. David Box.

Modified the linux version of acpidump to obtain ACPI tables from not just /dev/mem (which may not exist) and /sys/firmware/acpi/tables. Lv Zheng.

iASL: Fixed a problem where the user preprocessor output file (.i) contained extra data that was not expected. The compiler was using this file as a temporary file and passed through #line directives in order to keep compiler error messages in sync with the input file and line number across multiple include files. The (.i) is no longer a temporary file as the compiler uses a new, different file for the original purpose.

iASL: Fixed a problem where comments within the original ASL source code file were not passed through to the preprocessor output file, nor any listing files.

iASL: Fixed some issues for the handling of the "#include" preprocessor directive and the similar (but not the same) "Include" ASL operator.

iASL: Add support for the new OSDT in both the disassembler and compiler.

iASL: Fixed a problem with the constant folding support where a Buffer object could be incorrectly generated (incorrectly formed) during a conversion to a Store() operator.

AcpiHelp: Updated for new NFIT GUIDs, "External" AML opcode, and new description text for the \_REV predefined name. \_REV now permanently returns 2, as per the ACPI 6.0 specification.

Debugger: Enhanced the output of the Debug ASL object for references produced by the Index operator. For Buffers and strings, only output the actual byte pointed to by the index. For packages, only print the single package element decoded by the index. Previously, the entire buffer/string/package was emitted.

iASL/Table-compiler: Fixed a regression where the "generic" data types were no longer recognized, causing errors.

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15 May 2015. Summary of changes for version 20150515:

This release implements most of ACPI 6.0 as described below.

1) ACPICA kernel-resident subsystem:

Implemented runtime argument checking and return value checking for all new ACPI 6.0 predefined names. This includes: \_BTH, \_CR3, \_DSD, \_LPI, \_MTL, \_PRR, \_RDI, \_RST, \_TFP, \_TSN.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 99.9K Code, 27.5K Data, 127.4K Total

Debug Version: 195.2K Code, 80.8K Data, 276.0K Total

Previous Release:

Non-Debug Version: 99.1K Code, 27.3K Data, 126.4K Total

Debug Version: 192.8K Code, 79.9K Data, 272.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL compiler: Added compile-time support for all new ACPI 6.0 predefined names (argument count validation and return value typechecking.)

iASL disassembler and table compiler: implemented support for all new ACPI 6.0 tables. This includes: DRTM, IORT, LPIT, NFIT, STAO, WPBT, XENV.

iASL disassembler and table compiler: Added ACPI 6.0 changes to existing tables: FADT, MADT.

iASL preprocessor: Added a new directive to enable inclusion of binary blobs into ASL code. The new directive is #includebuffer. It takes a binary file as input and emits a named ascii buffer object into the ASL code.

AcpiHelp: Added support for all new ACPI 6.0 predefined names.

AcpiHelp: Added a new option, -d, to display all iASL preprocessor directives.

AcpiHelp: Added a new option, -t, to display all known/supported ACPI tables.



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10 April 2015. Summary of changes for version 20150410:

Reverted a change introduced in version 20150408 that caused a regression in the disassembler where incorrect operator symbols could be emitted.

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08 April 2015. Summary of changes for version 20150408:

1) ACPICA kernel-resident subsystem:

Permanently set the return value for the \_REV predefined name. It now returns 2 (was 5). This matches other ACPI implementations. \_REV will be deprecated in the future, and is now defined to be 1 for ACPI 1.0, and 2 for ACPI 2.0 and later. It should never be used to differentiate or identify operating systems.

Added the "Windows 2015" string to the \_OSI support. ACPICA will now return TRUE to a query with this string.

Fixed several issues with the local version of the printf function.

Added the C99 compiler option (-std=c99) to the Unix makefiles.

Current Release:

Non-Debug Version: 99.9K Code, 27.4K Data, 127.3K Total

Debug Version: 195.2K Code, 80.7K Data, 275.9K Total

Previous Release:

Non-Debug Version: 98.8K Code, 27.3K Data, 126.1K Total

Debug Version: 192.1K Code, 79.8K Data, 271.9K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented an enhancement to the constant folding feature to transform the parse tree to a simple Store operation whenever possible:

Add (2, 3, X) ==> is converted to: Store (5, X)

X = 2 + 3 ==> is converted to: Store (5, X)

Updated support for the SLIC table (Software Licensing Description Table) in both the Data Table compiler and the disassembler. The SLIC table support now conforms to "Microsoft Software Licensing Tables (SLIC and



MSDM). November 29, 2011. Copyright 2011 Microsoft". Note: Any SLIC data following the ACPI header is now defined to be "Proprietary Data", and as such, can only be entered or displayed as a hex data block.

Implemented full support for the MSDM table as described in the document above. Note: The format of MSDM is similar to SLIC. Any MSDM data following the ACPI header is defined to be "Proprietary Data", and can only be entered or displayed as a hex data block.

Implemented the -Pn option for the iASL Table Compiler (was only implemented for the ASL compiler). This option disables the iASL preprocessor.

Disassembler: For disassembly of Data Tables, added a comment field around the Ascii equivalent data that is emitted as part of the "Raw Table Data" block. This prevents the iASL Preprocessor from possible confusion if/when the table is compiled.

Disassembler: Added an option (-df) to force the disassembler to assume that the table being disassembled contains valid AML.

This feature is useful for disassembling AML files that contain ACPI signatures other than DSDT or SSDT (such as OEMx or other signatures).

Changes for the EFI version of the tools:

- 1) Fixed a build error/issue
- 2) Fixed a cast warning

iASL: Fixed a path issue with the \_\_FILE\_\_ operator by making the directory prefix optional within the internal SplitInputFilename function.

Debugger: Removed some unused global variables.

Tests: Updated the makefile for proper generation of the AAPITS suite.

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04 February 2015. Summary of changes for version 20150204:

ACPICA kernel-resident subsystem:

Updated all ACPICA copyrights and signons to 2014. Added the 2014 copyright to all module headers and signons, including the standard Linux header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, all ACPICA utilities, and the test suites.



Events: Introduce ACPI\_GPE\_DISPATCH\_RAW\_HANDLER to fix GPE storm issues.

A raw gpe handling

mechanism was created to allow better handling of GPE storms that aren't easily managed by the normal handler. The raw handler allows disabling/enabling of the GPE so that interrupt storms can be avoided in cases where events cannot be timely serviced. In this scenario, handlers should use the AcpiSetGpe() API to disable/enable the GPE. This API will leave the reference counts undisturbed, thereby preventing unintentional clearing of the GPE when the intent is only to temporarily disable it. Raw handlers allow enabling and disabling of a GPE by removing GPE register locking. As such, raw handlers must provide their own locks while using GPE API's to protect access to GPE data structures.

Lu Zheng

Events: Always modify GPE registers under the GPE lock.

Applies GPE lock around AcpiFinishGpe() to protect access to GPE register values. Reported as bug by joe.liu@apple.com.

Unix makefiles: Separate option to disable optimizations and

\_FORTIFY\_SOURCE. This change removes the

\_FORTIFY\_SOURCE flag from the

NOOPT disable option and creates a separate flag (NOFORTIFY) for this purpose. Some toolchains may define \_FORTIFY\_SOURCE which leads to redefined errors when building ACPIA. This allows disabling the option without also having to disable optimizations.

David Box

Current Release:

Non-Debug Version: 101.7K Code, 27.9K Data, 129.6K Total

Debug Version: 199.2K Code, 82.4K Data, 281.6K Total

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07 November 2014. Summary of changes for version 20141107:

This release is available at <https://acpica.org/downloads>

This release introduces and implements language extensions to ASL that provide support for symbolic ("C-style") operators and expressions. These language extensions are known collectively as ASL+.

1) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a problem with disassembly of the UartSerialBus macro. Changed "StopBitsNone" to the correct "StopBitsZero". David E. Box.



Disassembler:

Fixed the Unicode macro support to add escape sequences.

All non-printable ASCII values are emitted as escape sequences, as well as the standard escapes for quote and backslash. Ensures that the disassembled macro can be correctly recompiled.

iASL: Added Printf/Fprintf macros for formatted output. These macros are translated to existing AML Concatenate and Store operations. Printf writes to the ASL Debug object. Fprintf allows the specification of an ASL name as the target. Only a single format specifier is required, %o, since the AML interpreter dynamically converts objects to the required type. David E. Box.

```
(old) Store (Concatenate (Concatenate (Concatenate (Concatenate
    (Concatenate (Concatenate (Concatenate ("", Arg0),
    ": Unexpected value for ", Arg1), ", ", Arg2),
    " at line ", Arg3), Debug)
```

```
(new) Printf ("%o: Unexpected value for %o, %o at line %o",
    Arg0, Arg1, Arg2, Arg3)
```

```
(old)
Store (Concatenate (Concatenate (Concatenate (Concatenate
    ("", Arg1), ": "), Arg0), " Successful"), STR1)
```

```
(new) Fprintf (STR1, "%o: %o Successful", Arg1, Arg0)
```

iASL: Added debug options (-bp, -bt) to dynamically prune levels of the ASL parse tree before the AML code is generated. This allows blocks of ASL code to be removed in order to help locate and identify problem devices and/or code. David E. Box.

AcpiExec: Added support (-fi) for an optional namespace object initialization file. This file specifies initial values for namespace objects as necessary for debugging and testing different ASL code paths that may be taken as a result of BIOS options.

## 2) Overview of symbolic operator support for ASL (ASL+)

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As an extension to the ASL language, iASL implements support for symbolic (C-style) operators for math and logical expressions. This can greatly simplify ASL code as well as improve both readability and maintainability. These language extensions can exist concurrently with all legacy ASL code and expressions.



The symbolic extensions are 100% compatible with existing AML interpreters, since no new AML opcodes are created. To implement the extensions, the iASL compiler transforms the symbolic expressions into the legacy ASL/AML equivalents at compile time.

Full symbolic expressions are supported, along with the standard C precedence and associativity rules.

Full disassembler support for the symbolic expressions is provided, and creates an automatic migration path for existing ASL code to ASL+ code via the disassembly process. By default, the disassembler now emits ASL+ code with symbolic expressions. An option (-dl) is provided to force the disassembler to emit legacy ASL code if desired.

Below is the complete list of the currently supported symbolic operators with examples. See the iASL User Guide for additional information.

| ASL+ Syntax | Legacy ASL Equivalent |
|-------------|-----------------------|
|-------------|-----------------------|

|       |       |
|-------|-------|
| ----- | ----- |
|-------|-------|

// Math operators

|            |                      |
|------------|----------------------|
| Z = X + Y  | Add (X, Y, Z)        |
| Z = X - Y  | Subtract (X, Y, Z)   |
| Z = X * Y  | Multiply (X, Y, Z)   |
| Z = X / Y  | Divide (X, Y, , Z)   |
| Z = X % Y  | Mod (X, Y, Z)        |
| Z = X << Y | ShiftLeft (X, Y, Z)  |
| Z = X >> Y | ShiftRight (X, Y, Z) |
| Z = X & Y  | And (X, Y, Z)        |
| Z = X   Y  | Or (X, Y, Z)         |
| Z = X ^ Y  | Xor (X, Y, Z)        |
| Z = ~X     | Not (X, Z)           |
| X++        | Increment (X)        |
| X--        | Decrement (X)        |

// Logical operators

|          |                      |
|----------|----------------------|
| (X == Y) | LEqual (X, Y)        |
| (X != Y) | LNotEqual (X, Y)     |
| (X < Y)  | LLess (X, Y)         |
| (X > Y)  | LGreater (X, Y)      |
| (X <= Y) | LLessEqual (X, Y)    |
| (X >= Y) | LGreaterEqual (X, Y) |
| (X && Y) | LAnd (X, Y)          |



(X || Y)      LOr (X, Y)  
 (!X)          LNot (X)

// Assignment and compound assignment operations

X = Y          Store (Y, X)  
 X += Y        Add (X, Y, X)  
 X -= Y        Subtract (X, Y, X)  
 X \*= Y        Multiply (X, Y, X)  
 X  
 /= Y          Divide (X, Y, , X)  
 X %= Y        Mod (X, Y, X)  
 X <<= Y       ShiftLeft (X, Y, X)  
 X >>= Y       ShiftRight (X, Y, X)  
 X &= Y        And (X, Y, X)  
 X |= Y        Or (X, Y, X)  
 X ^= Y        Xor (X, Y, X)

3) ASL+ Examples:

-----

Legacy ASL:

If (LOr (LOr (LEqual (And (R510, 0x03FB), 0x02E0), LEqual (And (R520, 0x03FB), 0x02E0)), LOr (LEqual (And (R530, 0x03FB), 0x02E0), LEqual (And (R540, 0x03FB), 0x02E0))))  
 {  
   And (MEMB, 0xFFFFFFFF0, SRMB)  
   Store (MEMB, Local2)  
   Store (PDBM, Local1)  
   And (PDBM, 0xFFFFFFFFFFFF9, PDBM)  
   Store (SRMB, MEMB)  
   Or (PDBM, 0x02, PDBM)  
 }

ASL+ version:

If (((R510 & 0x03FB) == 0x02E0) ||  
 ((R520 & 0x03FB) == 0x02E0) ||  
 ((R530 & 0x03FB) == 0x02E0) ||  
 ((R540 & 0x03FB) == 0x02E0))  
 {  
   SRMB = (MEMB & 0xFFFFFFFF0)  
   Local2 = MEMB  
   Local1  
 }  
 = PDBM  
 PDBM &= 0xFFFFFFFFFFFF9  
 MEMB = SRMB



```

PDBM |= 0x02
}

```

Legacy ASL:

```

Store (0x1234, Local1)
Multiply (Add (Add (Local1, TEST), 0x20), Local2, Local3)
Multiply (Local2, Add (Add (Local1, TEST), 0x20), Local3)
Add (Local1, Add (TEST, Multiply (0x20, Local2)), Local3)
Store (Index (PKG1, 0x03), Local6)
Store (Add (Local3, Local2), Debug)
Add (Local1, 0x0F, Local2)
Add (Local1, Multiply (Local2, Local3), Local2)
Multiply (Add (Add (Local1, TEST), 0x20), ToBCD (Local1), Local3)

```

ASL+ version:

```

Local1 = 0x1234
Local3 = (((Local1 + TEST) + 0x20) * Local2)
Local3 = (Local2 * ((Local1 + TEST) + 0x20))
Local3 = (Local1 + (TEST + (0x20 * Local2)))
Local6 = Index (PKG1, 0x03)
Debug = (Local3 + Local2)
Local2 = (Local1 + 0x0F)
Local2 = (Local1 + (Local2 * Local3))
Local3 = (((Local1 + TEST) + 0x20) * ToBCD (Local1))

```

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26

September 2014. Summary of changes for version 20140926:

1) ACPICA kernel-resident subsystem:

Updated the GPIO operation region handler interface (GeneralPurposeIo).

In order to support GPIO Connection objects with multiple pins, along with the related Field objects, the following changes to the interface have been made: The Address is now defined to be the offset in bits of the field unit from the previous invocation of a Connection. It can be viewed as a "Pin Number Index" into the connection resource descriptor. The BitWidth is the exact bit width of the field. It is usually one bit, but not always. See the ACPICA reference guide (section 8.8.6.2.1) for additional information and examples.

GPE support: During ACPICA/GPE initialization, ensure that all GPEs with corresponding \_Lxx/\_Exx methods are disabled (they may have been enabled by the firmware), so that they cannot fire until they are enabled via AcpiUpdateAllGpes.

Rafael J. Wysocki.



Added a new return flag for the Event/GPE status interfaces --  
AcpiGetEventStatus and AcpiGetGpeStatus. The new  
ACPI\_EVENT\_FLAGS\_HAS\_HANDLER flag is used to indicate that the event or  
GPE currently has a handler associated with it, and can thus actually  
affect the system. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent  
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The  
debug version of the code includes the debug output trace mechanism and  
has a much larger code and data size.

Current Release:

Non-Debug Version: 99.1K Code, 27.3K Data, 126.4K Total

Debug Version: 192.8K Code, 79.9K Data, 272.7K Total

Previous Release:

Non-Debug Version: 98.8K Code, 27.3K Data, 126.1K Total

Debug Version: 192.1K Code, 79.8K Data, 271.9K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a memory allocation/free regression introduced in 20140828  
that could cause the compiler  
to crash. This was introduced inadvertently  
during the effort to eliminate compiler memory leaks. ACPICA BZ 1111,  
1113.

iASL: Removed two error messages that have been found to create false  
positives, until they can be fixed and fully validated (ACPICA BZ 1112):

- 1) Illegal forward reference within a method
- 2) Illegal reference across two methods

iASL: Implemented a new option (-lm) to create a hardware mapping file  
that summarizes all GPIO, I2C, SPI, and UART connections. This option  
works for both the compiler and disassembler. See the iASL compiler user  
guide for additional information and examples (section 6.4.6).

AcpiDump: Added support for the version 1 (ACPI 1.0) RSDP in addition to  
version 2. This corrects the AE\_BAD\_HEADER exception seen on systems with  
a version 1 RSDP. Lv Zheng ACPICA BZ 1097.

AcpiExec: For Unix versions, don't attempt to put STDIN into raw mode  
unless STDIN is actually a terminal. Assists with batch-mode processing.  
ACPICA BZ 1114.

Disassembler/AcpiHelp:

Added another large group of recognized \_HID  
values.



-----  
28 August 2014. Summary of changes for version 20140828:

1) ACPICA kernel-resident subsystem:

Fixed a problem related to the internal use of the Timer() operator where a 64-bit divide could cause an attempted link to a double-precision math library. This divide is not actually necessary, so the code was restructured to eliminate it. Lv Zheng.

ACPI 5.1: Added support for the runtime validation of the \_DSD package (similar to the iASL support).

ACPI 5.1/Headers: Added support for the GICC affinity subtable to the SRAT table. Hanjun Guo <hanjun.guo@linaro.org>.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 98.8K Code, 27.3K

Data, 126.1K Total

Debug Version: 192.1K Code, 79.8K Data, 271.9K Total

Previous Release:

Non-Debug Version: 98.7K Code, 27.3K Data, 126.0K Total

Debug Version: 192.0K Code, 79.7K Data, 271.7K Total

2) iASL Compiler/Disassembler and Tools:

AcpiExec: Fixed a problem on unix systems where the original terminal state was not always properly restored upon exit. Seen when using the -v option. ACPICA BZ 1104.

iASL: Fixed a problem with the validation of the ranges/length within the Memory24 resource descriptor. There was a boundary condition when the range was equal to the (length -1) caused by the fact that these values are defined in 256-byte blocks, not bytes. ACPICA BZ 1098

Disassembler: Fixed a problem with the GpioInt descriptor interrupt polarity flags. The flags are actually 2 bits, not 1, and the "ActiveBoth" keyword is now supported properly.

ACPI 5.1: Added the GICC affinity subtable to the SRAT table. Supported



in the disassembler, data table compiler, and table template generator.

iASL: Added a requirement for Device() objects that one of either a \_HID or \_ADR must exist within the scope of a Device, as per the ACPI specification. Remove a similar requirement that was incorrectly in place for the \_DSD object.

iASL: Added error detection for illegal named references within control methods that would cause runtime failures. Now trapped as errors are: 1) References to objects within a non-parent control method. 2) Forward references (within a method) -- for control methods, AML interpreters use a one-pass parse of control methods. ACPICA BZ 1008.

iASL: Added error checking for dependencies related to the \_PSx power methods. ACPICA BZ 1029.

- 1) For \_PS0, one of these must exist within the same scope: \_PS1, \_PS2, \_PS3.
- 2) For \_PS1, \_PS2, and PS3: A \_PS0 object must exist within the same scope.

iASL and table compiler: Cleanup miscellaneous memory leaks by fully deploying the existing object and string caches and adding new caches for the table compiler.

iASL: Split the huge parser source file into multiple subfiles to improve manageability. Generation now requires the M4 macro preprocessor, which is part of the Bison distribution on both unix and windows platforms.

AcpiSrc: Fixed and removed all extraneous warnings generated during entire ACPICA source code scan and/or conversion.

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24 July 2014. Summary of changes for version 20140724:

The ACPI 5.1 specification has been released and is available at:  
<http://uefi.org/specs/access>

0) ACPI 5.1 support in ACPICA:

ACPI 5.1 is fully supported in ACPICA as of this release.

New predefined names. Support includes iASL and runtime ACPICA validation.



\_CCA (Cache Coherency Attribute).  
\_DSD (Device-Specific Data). David Box.

Modifications to existing ACPI tables. Support includes headers, iASL  
Data Table compiler, disassembler, and the template generator.

FADT - New fields and flags.

Graeme Gregory.

GTDT - One new subtable and new fields. Tomasz Nowicki.

MADT - Two new subtables. Tomasz Nowicki.

PCCT - One new subtable.

Miscellaneous.

New notification type for System Resource Affinity change events.

1) ACPICA kernel-resident subsystem:

Fixed a regression introduced in 20140627 where a fault can happen during  
the deletion of Alias AML namespace objects. The problem affected both  
the core ACPICA and the ACPICA tools including iASL and AcpiExec.

Implemented a new GPE public interface, AcpiMarkGpeForWake. Provides a  
simple mechanism to enable wake GPEs that have no associated handler or  
control method. Rafael Wysocki.

Updated the AcpiEnableGpe interface to disallow the enable if there is no  
handler or control method associated with the particular GPE. This will  
help avoid meaningless GPEs and even GPE floods. Rafael Wysocki.

Updated GPE handling and dispatch by disabling the GPE before clearing  
the status bit for edge-triggered GPEs. Lv  
Zheng.

Added Timer() support to the AML Debug object. The current timer value is  
now displayed with each invocation of (Store to) the debug object to  
enable simple generation of execution times for AML code (method  
execution for example.) ACPICA BZ 1093.

Example Code and Data Size: These are the sizes for the OS-independent  
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The  
debug version of the code includes the debug output trace mechanism and  
has a much larger code and data size.

Current Release:

Non-Debug Version: 98.7K Code, 27.3K Data, 126.0K Total

Debug Version: 192.0K Code, 79.7K Data, 271.7K Total

Previous Release:

Non-Debug Version: 98.7K Code, 27.2K Data, 125.9K Total



Debug Version: 191.7K Code, 79.6K Data, 271.3K Total

## 2) iASL Compiler/Disassembler and Tools:

Fixed an issue with the recently added local printf implementation, concerning width/precision specifiers that could cause incorrect output.

Lv Zheng. ACPICA

BZ 1094.

Disassembler: Added support to detect buffers that contain UUIDs and disassemble them to an invocation of the ToUUID operator. Also emit commented descriptions of known ACPI-related UUIDs.

AcpiHelp: Added support to display known ACPI-related UUIDs. New option, -u. Adds three new files.

iASL: Update table compiler and disassembler for DMAR table changes that were introduced in September 2013. With assistance by David Woodhouse.

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27 June 2014. Summary of changes for version 20140627:

### 1) ACPICA kernel-resident subsystem:

Formatted Output: Implemented local versions of standard formatted output utilities such as printf, etc. Over time, it has been discovered that there are in fact many portability issues with printf, and the addition of this feature will fix/prevent these issues once and for all. Some known issues are summarized below:

- 1) Output of 64-bit values is not portable. For example, UINT64 is %ull for the Linux kernel and is %uI64 for some MSVC versions.
- 2) Invoking printf consistently in a manner that is portable across both 32-bit and 64-bit platforms is difficult at best in many situations.
- 3) The output format for pointers varies from system to system (leading zeros especially), and leads to inconsistent output from ACPICA across platforms.
- 4) Certain platform-specific printf formats may conflict with ACPICA use.
- 5) If there is no local C library available, ACPICA now has local support for printf.

-- To address these printf issues in a complete manner, ACPICA now directly implements a small subset of printf format specifiers, only those that it requires. Adds a new file, utilities/utprint.c. Lv Zheng.

Implemented support for ACPICA generation within the EFI environment.



Initially, the AcpiDump utility is supported in the UEFI shell environment. Lv Zheng.

Added a new external interface, AcpiLogError, to improve ACPICA portability. This allows the host to redirect error messages from the ACPICA utilities. Lv Zheng.

Added and deployed new OSL file I/O interfaces to improve ACPICA portability:

AcpiOsOpenFile

AcpiOsCloseFile

AcpiOsReadFile

AcpiOsWriteFile

AcpiOsGetFileOffset

AcpiOsSetFileOffset

There are C library implementations of these functions in the new file service\_layers/oslibcfs.c -- however, the functions can be implemented by the local host in any way necessary. Lv Zheng.

Implemented a mechanism to disable/enable ACPI table checksum validation at runtime. This can be useful when loading tables very early during OS initialization when it may not be possible to map the entire table in order to compute the checksum. Lv Zheng.

Fixed a buffer allocation issue for the Generic Serial Bus support. Originally, a fixed buffer length was used. This change allows for variable-length buffers based upon the protocol indicated by the field access attributes. Reported by Lan Tianyu. Lv Zheng.

Fixed a problem where an object detached from a namespace node was not properly terminated/cleared and could cause a circular list problem if reattached. ACPICA BZ 1063. David Box.

Fixed a possible recursive lock acquisition in hwregs.c. Rakib Mullick.

Fixed a possible memory leak in an error return path within the function AcpiUtCopyObjectToObject. ACPICA BZ 1087. Colin Ian King.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 98.7K Code, 27.2K Data, 125.9K Total

Debug Version: 191.7K Code, 79.6K Data, 271.3K Total



Previous Release:

Non-Debug Version: 96.8K Code, 27.2K Data, 124.0K Total

Debug Version: 189.5K Code, 79.7K Data, 269.2K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Add dump of ASCII equivalent text within a comment at the

end of each line of the output for the Buffer() ASL operator.

AcpiDump: Miscellaneous changes:

Fixed repetitive table dump in -n mode.

For older EFI platforms, use the ACPI 1.0 GUID during RSDP search if the ACPI 2.0 GUID fails.

iASL: Fixed a problem where the compiler could fault if incorrectly given an acpidump output file as input. ACPICA BZ 1088. David Box.

AcpiExec/AcpiNames: Fixed a problem where these utilities could fault if they are invoked without any arguments.

Debugger: Fixed a possible memory leak in an error return path. ACPICA BZ 1086. Colin Ian King.

Disassembler: Cleaned up a block of code that extracts a parent Op object. Added a comment that explains that the parent is guaranteed to be valid in this case. ACPICA BZ 1069.

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24 April 2014. Summary of changes for version 20140424:

1) ACPICA kernel-resident subsystem:

Implemented support to skip/ignore NULL address entries in the RSDT/XSDT.

Some of these tables

are known to contain a trailing NULL entry. Lv Zheng.

Removed an extraneous error message for the case where there are a large number of system GPEs (> 124). This was the "32-bit FADT register is too long to convert to GAS struct" message, which is irrelevant for GPEs since the GPEX\_BLK\_LEN fields of the FADT are always used instead of the (limited capacity) GAS bit length. Also, several changes to ensure proper support for GPE numbers > 255, where some "GPE number" fields were 8-bits internally.



Implemented and deployed additional configuration support for the public ACPICA external interfaces. Entire classes of interfaces can now be easily modified or configured out, replaced by stubbed inline functions by default. Lv Zheng.

Moved all public ACPICA runtime configuration globals to the public ACPICA external interface file for convenience. Also, removed some obsolete/unused globals. See the file acpixf.h. Lv Zheng.

Documentation: Added a new section to the ACPICA reference describing the maximum number of GPEs that can be supported by the FADT-defined GPEs in block zero and one. About 1200 total. See section 4.4.1 of the ACPICA reference.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 96.8K Code, 27.2K Data, 124.0K Total

Debug Version: 189.5K Code, 79.7K Data, 269.2K Total

Previous Release:

Non-Debug Version: 97.0K Code, 27.2K Data, 124.2K Total

Debug Version: 189.7K Code, 79.5K Data, 269.2K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL and disassembler: Add full support for the LPIT table (Low Power Idle Table). Includes support in the disassembler, data table compiler, and template generator.

AcpiDump utility:

- 1) Add option to force the use of the RSDT (over the XSDT).
- 2) Improve validation of the RSDP signature (use 8 chars instead of 4).

iASL: Add check for predefined packages that are too large. For predefined names that contain subpackages, check if each subpackage is too large. (Check for too small already exists.)

Debugger: Updated the GPE command (which simulates a GPE by executing the GPE code paths in ACPICA). The GPE device is now optional, and defaults to the GPE 0/1 FADT-defined blocks.

Unix application OSL: Update line-editing support. Add additional error



checking and take care not to reset terminal attributes on exit if they were never set. This should help guarantee that the terminal is always left in the previous state on program exit.

-----  
25 March 2014. Summary of changes for version 20140325:

1) ACPICA kernel-resident subsystem:

Updated the auto-serialize feature for control methods. This feature automatically serializes all methods that create named objects in order

to prevent runtime errors. The update adds support to ignore the currently executing AML SyncLevel when invoking such a method, in order to prevent disruption of any existing SyncLevel priorities that may exist in the AML code. Although the use of SyncLevels is relatively rare, this change fixes a regression where an AE\_AML\_MUTEX\_ORDER exception can appear on some machines starting with the 20140214 release.

Added a new external interface to allow the host to install ACPI tables very early, before the namespace is even created. AcpiInstallTable gives the host additional flexibility for ACPI table management. Tables can be installed directly by the host as if they had originally appeared in the XSDT/RSDDT. Installed tables can be SSDTs or other ACPI data tables (anything except the DSDT and FACS). Adds a new file, tbdata.c, along with additional internal restructuring and cleanup. See the ACPICA Reference for interface details. Lv Zheng.

Added validation of the checksum for all incoming dynamically loaded tables (via external interfaces or via AML Load/LoadTable operators). Lv Zheng.

Updated the use of the AcpiOsWaitEventsComplete interface during Notify and GPE handler removal. Restructured calls to eliminate possible race conditions. Lv Zheng.

Added a warning for the use/execution of the ASL/AML Unload (table) operator. This will help detect and identify machines that use this operator if and when it is ever used. This operator has never been seen in the field and the usage model and possible side-effects of the drastic runtime action of a full table removal are unknown.

Reverted the use of #pragma push/pop which was introduced in the 20140214 release. It appears that push and pop are not implemented by enough compilers to make the use of this feature feasible for ACPICA at this time. However, these operators may be deployed in a future ACPICA



release.

Added the missing EXPORT\_SYMBOL macros for the install and remove SCI handler interfaces.

#### Source

code generation:

- 1) Disabled the use of the "strchr" macro for the gcc-specific generation. For some versions of gcc, this macro can periodically expose a compiler bug which in turn causes compile-time error(s).
- 2) Added support for PPC64 compilation. Colin Ian King.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

#### Current Release:

Non-Debug Version: 97.0K Code, 27.2K Data, 124.2K Total

Debug Version: 189.7K Code, 79.5K Data, 269.2K Total

#### Previous Release:

Non-Debug Version: 96.5K Code, 27.2K Data, 123.7K Total

Debug Version: 188.6K Code, 79.0K Data, 267.6K Total

#### 2) iASL Compiler/Disassembler and Tools:

Disassembler: Added several new features to improve the readability of the resulting ASL code. Extra information is emitted within comment

fields in the ASL code:

- 1) Known \_HID/\_CID values are decoded to descriptive text.
- 2) Standard values for the Notify() operator are decoded to descriptive text.
- 3) Target operands are expanded to full pathnames (in a comment) when possible.

Disassembler: Miscellaneous updates for extern() handling:

- 1) Abort compiler if file specified by -fe option does not exist.
- 2) Silence unnecessary warnings about argument count mismatches.
- 3) Update warning messages concerning unresolved method externals.
- 4) Emit "UnknownObj" keyword for externals whose type cannot be determined.

#### AcpiHelp utility:

- 1) Added the -a option to display both the ASL syntax and the AML encoding for an input ASL operator. This effectively displays all known information about an ASL operator with one AcpiHelp invocation.



2) Added substring match support (similar to a wildcard) for the -i (\_HID/PNP IDs) option.

iASL/Disassembler: Since this tool does not yet support execution on big-endian machines, added detection of endianness and an error message if execution is attempted on big-endian. Support for big-endian within iASL is a feature that is on the ACPICA to-be-done list.

AcpiBin utility:

- 1) Remove option to extract binary files from an acpidump; this function is made obsolete by the AcpiXtract utility.
- 2) General cleanup of open files and allocated buffers.

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14 February 2014. Summary of changes for version 20140214:

1) ACPICA kernel-resident subsystem:

Implemented a new mechanism to proactively prevent problems with ill-behaved reentrant control methods that create named ACPI objects. This behavior is illegal as per the ACPI specification, but is nonetheless frequently seen in the field. Previously, this could lead to an AE\_ALREADY\_EXISTS exception if the method was actually entered by more than one thread. This new mechanism detects such methods at table load time and marks them "serialized" to prevent reentrancy. A new global

option, AcpiGbl\_AutoSerializeMethods, has been added to disable this feature if desired. This mechanism and global option obsoletes and supersedes the previous AcpiGbl\_SerializeAllMethods option.

Added the "Windows 2013" string to the \_OSI support. ACPICA will now respond TRUE to \_OSI queries with this string. It is the stated policy of ACPICA to add new strings to the \_OSI support as soon as possible after they are defined. See the full ACPICA \_OSI policy which has been added to the utilities/utosi.c file.

Hardened/updated the \_PRT return value auto-repair code:

- 1) Do not abort the repair on a single subpackage failure, continue to check all subpackages.
- 2) Add check for the minimum subpackage length (4).
- 3) Properly handle extraneous NULL package elements.

Added support to avoid the possibility of infinite loops when traversing object linked lists. Never allow an infinite loop, even in the face of corrupted object lists.



ACPICA headers: Deployed the use of #pragma pack(push) and #pragma pack(pop) directives to ensure that the ACPICA headers are independent of compiler settings or other host headers.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 96.5K Code, 27.2K Data, 123.7K Total

Debug Version: 188.6K Code, 79.0K Data, 267.6K Total

Previous Release:

Non-Debug Version: 96.2K Code, 27.0K Data, 123.2K Total

Debug Version: 187.5K Code, 78.3K Data, 265.8K Total

2) iASL Compiler/Disassembler and Tools:

iASL/Table-compiler: Fixed a problem with support for the SPMI table. The first reserved field was incorrectly forced to have a value of zero. This change correctly forces the field to have a value of one. ACPICA BZ 1081.

Debugger: Added missing support for the "Extra" and "Data" subobjects when displaying object data.

Debugger: Added support to display entire object linked lists when displaying object data.

iASL: Removed the obsolete -g option to obtain ACPI tables from the Windows registry. This feature has been superseded by the acpidump utility.

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14 January 2014. Summary of changes for version 20140114:

1) ACPICA kernel-resident subsystem:

Updated all ACPICA copyrights and signons to 2014. Added the 2014 copyright to all module headers and signons, including the standard Linux header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, all ACPICA utilities, and the test suites.

Improved parameter validation for AcpiInstallGpeBlock. Added the following checks:



- 1) The incoming device handle refers to type ACPI\_TYPE\_DEVICE.
  - 2) There is not already a GPE block attached to the device.
- Likewise, with AcpiRemoveGpeBlock, ensure that the incoming object is a device.

Correctly

support "references" in the ACPI\_OBJECT. This change fixes the support to allow references (namespace nodes) to be passed as arguments to control methods via the evaluate object interface. This is probably most useful for testing purposes, however.

Improved support for 32/64 bit physical addresses in printf()-like output. This change improves the support for physical addresses in printf debug statements and other output on both 32-bit and 64-bit hosts. It consistently outputs the appropriate number of bytes for each host. The %p specifier is unsatisfactory since it does not emit uniform output on all hosts/clib implementations (on some, leading zeros are not supported, leading to difficult-to-read output).

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 96.2K Code, 27.0K Data, 123.2K Total

Debug Version: 187.5K Code, 78.3K Data, 265.8K Total

Previous Release:

Non-Debug Version: 96.1K Code, 27.0K Data, 123.1K Total

Debug Version: 185.6K Code, 77.3K Data, 262.9K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Fix a possible fault when using the Connection() operator. Fixes a problem if the parent Field definition for the Connection operator refers to an operation region that does not exist. ACPICA BZ 1064.

AcpiExec: Load of local test tables is now optional. The utility has the capability to load some various tables to test features of ACPICA.

However, there are enough of them that the output of the utility became confusing. With this change, only the required local tables are displayed (RSDP, XSDT, etc.) along with the actual tables loaded via the command line specification. This makes the default output simpler and easier to understand. The -el command line option restores the original behavior for testing purposes.



AcpiExec: Added support for overlapping operation regions. This change expands the simulation of operation regions by supporting regions that overlap within the given address space. Supports SystemMemory and SystemIO. ASLTS test suite updated also. David Box. ACPICA BZ 1031.

AcpiExec: Added region handler support for PCI\_Config and EC spaces. This allows AcpiExec to simulate these address spaces, similar to the current support for SystemMemory and SystemIO.

Debugger: Added new command to read/write/compare all namespace objects. The command "test objects" will exercise the entire namespace by writing new values to each data object, and ensuring that the write was successful. The original value is then restored and verified.

Debugger: Added the "test predefined" command. This change makes this test public and puts it under the new "test" command. The test executes each and every predefined name within the current namespace.

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18

December 2013. Summary of changes for version 20131218:

Global note: The ACPI 5.0A specification was released this month. There are no changes needed for ACPICA since this release of ACPI is an errata/clarification release. The specification is available at [acpi.info](http://acpi.info).

#### 1) ACPICA kernel-resident subsystem:

Added validation of the XSDT root table if it is present. Some older platforms contain an XSDT that is ill-formed or otherwise invalid (such as containing some or all entries that are NULL pointers). This change adds a new function to validate the XSDT before actually using it. If the XSDT is found to be invalid, ACPICA will now automatically fall back to using the RSDT instead. Original implementation by Zhao Yakui. Ported to ACPICA and enhanced by Lv Zheng and Bob Moore.

Added a runtime option to ignore the XSDT and force the use of the RSDT. This change adds a runtime option that will force ACPICA to use the RSDT instead

of the XSDT (AcpiGbl\_DoNotUseXsdt). Although the ACPI spec requires that an XSDT be used instead of the RSDT, the XSDT has been found to be corrupt or ill-formed on some machines. Lv Zheng.

Added a runtime option to favor 32-bit FADT register addresses over the 64-bit addresses. This change adds an option to favor 32-bit FADT



addresses when there is a conflict between the 32-bit and 64-bit versions of the same register. The default behavior is to use the 64-bit version in accordance with the ACPI specification. This can now be overridden via the `AcpiGbl_Use32BitFadtAddresses` flag. ACPICA BZ 885. Lv Zheng.

During the change above, the internal "Convert FADT" and "Verify FADT" functions have been merged to simplify the code, making it easier to understand and maintain. ACPICA BZ 933.

Improve exception reporting and handling for GPE block installation. Return an actual status from `AcpiEvGetGpeXruptBlock` and don't clobber the status when exiting `AcpiEvInstallGpeBlock`. ACPICA BZ 1019.

Added helper macros to extract bus/segment numbers from the HEST table. This change adds two macros to extract the encoded bus and segment numbers from the HEST Bus field - `ACPI_HEST_BUS` and `ACPI_HEST_SEGMENT`. Betty Dall <betty.dall@hp.com>

Removed the unused `ACPI_FREE_BUFFER` macro. This macro is no longer used by ACPICA. It is not a public macro, so it should have no effect on existing OSV code. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

#### Current Release:

Non-Debug Version: 96.1K Code, 27.0K Data, 123.1K Total

Debug Version: 185.6K Code, 77.3K Data, 262.9K Total

#### Previous Release:

Non-Debug Version: 95.9K Code, 27.0K Data, 122.9K Total

Debug Version: 185.1K Code, 77.2K Data, 262.3K Total

## 2) iASL Compiler/Disassembler and Tools:

Disassembler: Improved pathname support for emitted `External()` statements. This change adds full pathname support for external names that have been resolved internally by the inclusion of additional ACPI tables (via the `iASL -e` option). Without this change, the disassembler can emit multiple externals for the same object, or it become confused when the `Scope()` operator is used on an external object. Overall, greatly improves the ability to actually recompile the emitted ASL code when objects are referenced across multiple ACPI tables. Reported by Michael Tsirkin (mst@redhat.com).



Tests/ASLTS: Updated functional control suite to execute with no errors.  
David Box. Fixed several errors related to the testing of the interpreter  
slack mode. Lv Zheng.

iASL: Added support to detect names that are declared within a control  
method, but are unused (these are temporary names that are only valid  
during the time the method is executing). A remark is issued for these  
cases.

ACPICA BZ 1022.

iASL: Added full support for the DBG2 table. Adds full disassembler,  
table compiler, and template generator support for the DBG2 table (Debug  
Port 2 table).

iASL: Added full support for the PCCT table, update the table definition.  
Updates the PCCT table definition in the actbl3.h header and adds table  
compiler and template generator support.

iASL: Added an option to emit only error messages (no warnings/remarks).  
The -ve option will enable only error messages, warnings and remarks are  
suppressed. This can simplify debugging when only the errors are  
important, such as when an ACPI table is disassembled and there are many  
warnings and remarks -- but only the actual errors are of real interest.

Example ACPICA code (source/tools/examples): Updated the example code so  
that it builds to an actual working program, not just example code. Added  
ACPI tables and execution of an example control method in the DSDT. Added  
makefile support for Unix generation.

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15

November 2013. Summary of changes for version 20131115:

This release is available at <https://acpica.org/downloads>

#### 1) ACPICA kernel-resident subsystem:

Resource Manager: Fixed loop termination for the "get AML length"  
function. The loop previously had an error termination on a NULL resource  
pointer, which can never happen since the loop simply increments a valid  
resource pointer. This fix changes the loop to terminate with an error on  
an invalid end-of-buffer condition. The problem can be seen as an  
infinite loop by callers to AcpiSetCurrentResources with an invalid or  
corrupted resource descriptor, or a resource descriptor that is missing  
an END\_TAG descriptor. Reported by Dan Carpenter



<dan.carpenter@oracle.com>. Lv Zheng, Bob Moore.

Table unload and ACPICA termination: Delete all attached data objects during namespace node deletion. This fix updates namespace node deletion to delete the entire list of attached objects (attached via AcpiAttachObject) instead of just one of the attached items. ACPICA BZ 1024. Tomasz Nowicki (tomasz.nowicki@linaro.org).

ACPICA termination: Added support to delete all objects attached to the root namespace node. This fix deletes any and all objects that have been attached to the root node via AcpiAttachData. Previously, none of these objects were deleted. Reported by Tomasz Nowicki. ACPICA BZ 1026.

Debug output: Do not emit the function nesting level for the in-kernel build. The nesting level is really only useful during a single-thread execution. Therefore, only enable this output for the AcpiExec utility. Also, only emit the thread ID when executing under AcpiExec (Context switches are still always detected and a message is emitted). ACPICA BZ 972.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 95.9K Code, 27.0K Data, 122.9K Total

Debug Version: 185.1K Code, 77.2K Data, 262.3K Total

Previous Release:

Non-Debug Version: 95.8K Code, 27.0K Data, 122.8K Total

Debug Version: 185.2K Code, 77.2K Data, 262.4K Total

## 2) iASL Compiler/Disassembler and Tools:

AcpiExec/Unix-OSL: Use <termios.h> instead of <termio.h>. This is the correct portable POSIX header for terminal control functions.

Disassembler: Fixed control method invocation issues related to the use of the CondRefOf() operator. The problem is seen in the disassembly where control method invocations may not be disassembled properly if the control method name has been used previously as an argument to CondRefOf. The solution is to not attempt to emit an external declaration for the CondRefOf target (it is not necessary in the first place). This prevents disassembler object type confusion. ACPICA BZ 988.



Unix Makefiles:

Added an option to disable compiler optimizations and the `_FORTIFY_SOURCE` flag. Some older compilers have problems compiling ACPIA with optimizations (reportedly, gcc 4.4 for example). This change adds a command line option for make (NOOPT) that disables all compiler optimizations and the `_FORTIFY_SOURCE` compiler flag. The default optimization is `-O2` with the `_FORTIFY_SOURCE` flag specified. ACPIA BZ 1034. Lv Zheng, Bob Moore.

Tests/ASLTS: Added options to specify individual test cases and modes. This allows testers running `aslts.sh` to optionally specify individual test modes and test cases. Also added an option to disable the forced generation of the ACPIA tools from source if desired. Lv Zheng.

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27 September 2013. Summary of changes for version 20130927:

This release is available at <https://acpica.org/downloads>

#### 1) ACPIA kernel-resident subsystem:

Fixed a problem with store operations to reference objects. This change fixes

a problem where a Store operation to an ArgX object that contained a

reference to a field object did not complete the automatic dereference and

then write to the actual field object. Instead, the object type of the field object was inadvertently changed to match the type of the source operand. The new behavior will actually write to the field object (buffer field or field unit), thus matching the correct ACPI-defined behavior.

Implemented support to allow the host to redefine individual OSL prototypes. This change enables the host to redefine OSL prototypes found in the `acpiosxf.h` file. This allows the host to implement OSL interfaces with a macro or inlined function. Further, it allows the host to add any additional required modifiers such as `__iomem`, `__init`, `__exit`, etc., as necessary on a per-interface basis. Enables maximum flexibility for the OSL interfaces. Lv Zheng.

Hardcoded the access width for the FADT-defined reset register. The ACPI specification requires

the reset register width to be 8 bits. ACPIA now

hardcodes the width to 8 and ignores the FADT width value. This provides compatibility with other ACPI implementations that have allowed BIOS code with bad register width values to go unnoticed. Matthew Garrett, Bob Moore,



Lv Zheng.

Changed the position/use of the `ACPI_PRINTF_LIKE` macro. This macro is used in the OSL header (`acpiosxf`). The change modifies the position of this macro in each instance where it is used (`AcpiDebugPrint`, etc.) to avoid build issues if the OSL defines the implementation of the interface to be an inline stub function. Lv Zheng.

Deployed a new macro `ACPI_EXPORT_SYMBOL_INIT` for the main ACPICA initialization interfaces. This change adds a new macro for the main init and terminate external interfaces in order to support hosts that require additional or different processing for these functions. Changed from `ACPI_EXPORT_SYMBOL` to `ACPI_EXPORT_SYMBOL_INIT` for these functions. Lv Zheng, Bob Moore.

Cleaned up the memory allocation macros for configurability. In the common case, the `ACPI_ALLOCATE` and related macros now resolve directly to their respective `AcpiOs*` OSL interfaces. Two options:

- 1) The `ACPI_ALLOCATE_ZEROED` macro uses a simple local implementation by default, unless overridden by the `USE_NATIVE_ALLOCATE_ZEROED` define.
- 2) For `AcpiExec` (and for debugging), the macros can optionally be resolved to the local ACPICA interfaces that track each allocation (local tracking is used to immediately detect memory leaks).

Lv Zheng.

Simplified the configuration for `ACPI_REDUCED_HARDWARE`. Allows the kernel to predefine this macro to either `TRUE` or `FALSE` during the system build.

Replaced `__FUNCTION__` with `__func__` in the gcc-specific header.

Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 95.8K Code, 27.0K Data, 122.8K Total

Debug Version: 185.2K Code, 77.2K Data, 262.4K Total

Previous Release:

Non-Debug Version: 96.7K Code, 27.1K Data, 123.9K Total

Debug Version: 184.4K Code, 76.8K Data, 261.2K Total



## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented wildcard support for the -e option. This simplifies use when there are many SSDTs that must be included to resolve external method

declarations. ACPICA BZ 1041. Example:

```
iasl -e ssdt*.dat -d dsdt.dat
```

AcpiExec: Add history/line-editing for Unix/Linux systems. This change adds a portable module that implements full history and limited line editing for Unix and Linux systems. It does not use readline() due to portability issues. Instead it uses the POSIX termio interface to put the terminal in raw input mode so that the various special keys can be trapped (such as up/down-arrow for history support and left/right-arrow for line editing). Uses the existing debugger history mechanism. ACPICA BZ 1036.

AcpiXtract: Add support to handle (ignore) "empty" lines containing only one or more spaces. This provides compatible with early or different versions of the AcpiDump utility. ACPICA BZ 1044.

AcpiDump: Do not ignore tables that contain only an ACPI table header. Apparently, some BIOSs create SSDTs that contain an ACPI table header but no other data. This change adds support to dump these tables. Any tables shorter than the length of an ACPI table header remain in error (an error message is emitted). Reported by Yi Li.

Debugger: Echo actual command along with the "unknown command" message.

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23 August 2013. Summary of changes for version 20130823:

### 1) ACPICA kernel-resident subsystem:

Implemented support for host-installed System Control Interrupt (SCI) handlers. Certain ACPI functionality requires the host to handle raw SCIs. For example, the "SCI Doorbell" that is defined for memory power state support requires the host device driver to handle SCIs to examine if the doorbell has been activated. Multiple SCI handlers can be installed to allow for future expansion. New external interfaces are AcpiInstallSciHandler, AcpiRemoveSciHandler; see the ACPICA reference for details. Lv Zheng, Bob Moore. ACPICA BZ 1032.

Operation region support: Never locally free the handler "context" pointer. This change removes some dangerous code that attempts to free the handler context pointer in some (rare) circumstances. The owner of



the handler owns this pointer and the ACPICA code should never touch it. Although not seen to be an issue in any kernel, it did show up as a problem (fault) under AcpiExec. Also, set the internal storage field for the context pointer to zero when the region is deactivated, simply for sanity. David Box. ACPICA BZ 1039.

AcpiRead: On error, do not modify the return value target location. If an error happens in the middle of a split 32/32 64-bit I/O operation, do not modify the target of the return value pointer. Makes the code consistent with the rest of ACPICA. Bjorn Helgaas.

Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 96.7K Code, 27.1K Data, 123.9K Total

Debug Version: 184.4K Code, 76.8K Data, 261.2K Total

Previous Release:

Non-Debug Version: 96.2K Code, 27.1K Data, 123.3K Total

Debug Version: 185.4K Code, 77.1K Data, 262.5K Total

## 2) iASL Compiler/Disassembler and Tools:

AcpiDump: Implemented several new features and fixed some problems:

- 1) Added support to dump the RSDP, RSDT, and XSDT tables.
- 2) Added support for multiple table instances (SSDT, UEFI).
- 3) Added option to dump "customized" (overridden) tables (-c).
- 4)

Fixed a problem where some table filenames were improperly constructed.

- 5) Improved some error messages, removed some unnecessary messages.

iASL: Implemented additional support for disassembly of ACPI tables that contain invocations of external control methods. The `-fe<file>` option allows the import of a file that specifies the external methods along with the required number of arguments for each -- allowing for the correct disassembly of the table. This is a workaround for a limitation of AML code where the disassembler often cannot determine the number of arguments required for an external control method and generates incorrect ASL code. See the iASL reference for details. ACPICA BZ 1030.

Debugger: Implemented a new command (`paths`) that displays the full pathnames (`namepaths`) and object types of all objects in the namespace. This is an alternative to the `namespace` command.



Debugger: Implemented a new command (sci) that invokes the SCI dispatch mechanism and any installed handlers.

iASL: Fixed a possible segfault for "too many parent prefixes" condition. This can occur if there are too many parent prefixes in a namepath (for example, ^^^^^PCI0.ECRD). ACPICA BZ 1035.

Application OSLs: Set the return value for the PCI read functions. These functions simply return AE\_OK, but should set the return value to zero also. This change implements this. ACPICA BZ 1038.

Debugger: Prevent possible command line buffer overflow. Increase the size of a couple of the debugger line buffers, and ensure that overflow cannot happen. ACPICA BZ 1037.

iASL: Changed to abort immediately on serious errors during the parsing phase. Due to the nature of ASL, there is no point in attempting to compile these types of errors, and they typically end up causing a cascade of hundreds of errors which obscure the original problem.

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25 July 2013. Summary of changes for version 20130725:

1) ACPICA kernel-resident subsystem:

Fixed

a problem with the DerefOf operator where references to FieldUnits and BufferFields incorrectly returned the parent object, not the actual value of the object. After this change, a dereference of a FieldUnit reference results in a read operation on the field to get the value, and likewise, the appropriate BufferField value is extracted from the target buffer.

Fixed a problem where the \_WAK method could cause a fault under these circumstances: 1) Interpreter slack mode was not enabled, and 2) the \_WAK method returned no value. The problem is rarely seen because most kernels run ACPICA in slack mode.

For the DerefOf operator, a fatal error now results if an attempt is made to dereference a reference (created by the Index operator) to a NULL package element. Provides compatibility with other ACPI implementations, and this behavior will be added to a future version of the ACPI specification.

The ACPI Power Management Timer (defined in the FADT) is now optional. This provides



compatibility with other ACPI implementations and will appear in the next version of the ACPI specification. If there is no PM Timer on the platform, AcpiGetTimer returns AE\_SUPPORT. An address of zero in the FADT indicates no PM timer.

Implemented a new interface for \_OSI support, AcpiUpdateInterfaces. This allows the host to globally enable/disable all vendor strings, all feature strings, or both. Intended to be primarily used for debugging purposes only. Lv Zheng.

Expose the collected \_OSI data to the host via a global variable. This data tracks the highest level vendor ID that has been invoked by the BIOS so that the host (and potentially ACPICA itself) can change behaviors based upon the age of the BIOS.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current

Release:

Non-Debug Version: 96.2K Code, 27.1K Data, 123.3K Total

Debug Version: 184.4K Code, 76.8K Data, 261.2K Total

Previous Release:

Non-Debug Version: 95.9K Code, 26.9K Data, 122.8K Total

Debug Version: 184.1K Code, 76.7K Data, 260.8K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Created the following enhancements for the -so option (create offset table):

- 1) Add offsets for the last nameseg in each namepath for every supported object type
- 2) Add support for Processor, Device, Thermal Zone, and Scope objects
- 3) Add the actual AML opcode for the parent object of every supported object type
- 4) Add support for the ZERO/ONE/ONES AML opcodes for integer objects

Disassembler: Emit all unresolved external symbols in a single block.

These are external references to control methods that could not be resolved, and thus, the disassembler had to make a guess at the number of arguments to parse.

iASL: The argument to the -T option (create table template)

is now

optional. If not specified, the default table is a DSDT, typically the



most common case.

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26 June 2013. Summary of changes for version 20130626:

1) ACPICA kernel-resident subsystem:

Fixed an issue with runtime repair of the \_CST object. Null or invalid elements were not always removed properly. Lv Zheng.

Removed an arbitrary restriction of 256 GPEs per GPE block (such as the FADT-defined GPE0 and GPE1). For GPE0, GPE1, and each GPE Block Device, the maximum number of GPEs is 1016. Use of multiple GPE block devices makes the system-wide number of GPEs essentially unlimited.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 95.9K Code, 26.9K Data, 122.8K Total

Debug Version:

184.1K Code, 76.7K Data, 260.8K Total

Previous Release:

Non-Debug Version: 96.0K Code, 27.0K Data, 123.0K Total

Debug Version: 184.1K Code, 76.8K Data, 260.9K Total

2) iASL Compiler/Disassembler and Tools:

Portable AcpiDump: Implemented full support for the Linux and FreeBSD hosts. Now supports Linux, FreeBSD, and Windows.

Disassembler: Added some missing types for the HEST and EINJ tables: "Set Error Type With Address", "CMCI", "MCE", and "Flush Cacheline".

iASL/Preprocessor: Implemented full support for nested #if/#else/#elif/#endif blocks. Allows arbitrary depth of nested blocks.

Disassembler: Expanded maximum output string length to 64K. Was 256 bytes max. The original purpose of this constraint was to limit the amount of debug output. However, the string function in question (UtPrintString) is now used for the disassembler also, where 256 bytes is insufficient. Reported by RehabMan@GitHub.

iASL/DataTables: Fixed some problems and issues with compilation



of DMAR  
tables. ACPIA BZ 999. Lv Zheng.

iASL: Fixed a couple of error exit issues that could result in a "Could not delete <file>" message during ASL compilation.

AcpiDump: Allow "FADT" and "MADT" as valid table signatures, even though the actual signatures for these tables are "FACP" and "APIC", respectively.

AcpiDump: Added support for multiple UEFI tables. Only SSDT and UEFI tables are allowed to have multiple instances.

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17 May 2013. Summary of changes for version 20130517:

1) ACPIA kernel-resident subsystem:

Fixed a regression introduced in version 20130328 for \_INI methods. This change fixes a problem introduced in 20130328 where \_INI methods are no longer executed properly because of a memory block that was not initialized correctly. ACPIA BZ 1016. Tomasz Nowicki <tomasz.nowicki@linaro.org>.

Fixed a possible problem with the new extended sleep registers in the ACPI 5.0 FADT. Do not use these registers (even if populated) unless the HW-reduced bit is set in the FADT (as per the ACPI specification). ACPIA BZ 1020. Lv Zheng.

Implemented return value repair code for \_CST predefined objects: Sort the list and detect/remove invalid entries. ACPIA BZ 890. Lv Zheng.

Implemented a debug-only option to disable loading of SSDTs from the RSDT/XSDT during ACPIA initialization. This can be useful for debugging ACPI problems on some machines. Set AcpiGbl\_DisableSsdTTableLoad in acglobal.h - ACPIA BZ 1005. Lv Zheng.

Fixed some issues in the ACPIA initialization and termination code:  
Tomasz Nowicki <tomasz.nowicki@linaro.org>

- 1) Clear events initialized flag upon event component termination. ACPIA BZ 1013.
- 2) Fixed a possible memory leak in GPE init error path. ACPIA BZ 1018.
- 3) Delete global lock pending lock during termination. ACPIA BZ 1012.
- 4) Clear debug buffer global on termination to prevent possible multiple delete. ACPIA BZ 1010.



Standardized all switch() blocks across the entire source base. After many years, different formatting for switch() had crept in. This change makes the formatting of every switch block identical. ACPICA BZ 997. Chao Guan.

Split some files to enhance ACPICA modularity and configurability:

- 1) Split buffer dump routines into utilities/utbuffer.c
- 2) Split internal error message routines into utilities/uterror.c
- 3) Split table print utilities into tables/tbprint.c
- 4) Split iASL command-line option processing into asloptions.c

Makefile enhancements:

- 1) Support for all new files above.
- 2) Abort make on errors from any subcomponent. Chao Guan.
- 3) Add build support for Apple Mac OS X. Liang Qi.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 96.0K Code, 27.0K Data, 123.0K Total

Debug

Version: 184.1K Code, 76.8K Data, 260.9K Total

Previous Release:

Non-Debug Version: 95.6K Code, 26.8K Data, 122.4K Total

Debug Version: 183.5K Code, 76.6K Data, 260.1K Total

## 2) iASL Compiler/Disassembler and Tools:

New utility: Implemented an easily portable version of the acpidump utility to extract ACPI tables from the system (or a file) in an ASCII hex

dump format. The top-level code implements the various command line options, file I/O, and table dump routines. To port to a new host, only three functions need to be implemented to get tables -- since this functionality is OS-dependent. See the tools/acpidump/apmain.c module and the ACPICA reference for porting instructions. ACPICA BZ 859. Notes:

- 1) The Windows version obtains the ACPI tables from the Registry.
- 2) The Linux version is under development.
- 3) Other hosts - If an OS-dependent module is submitted, it will be distributed with ACPICA.

iASL: Fixed a regression for -D preprocessor option (define



symbol). A

restructuring/change to the initialization sequence caused this option to no longer work properly.

iASL: Implemented a mechanism to disable specific warnings and remarks. Adds a new command line option, "-vw <messageid> as well as "#pragma disable <messageid>". ACPICA BZ 989. Chao Guan, Bob Moore.

iASL: Fix for too-strict package object validation. The package object validation for return values from the predefined names is a bit too strict, it does not allow names references within the package (which will be resolved at runtime.) These types of references cannot be validated at compile time. This change ignores named references within package objects for names that return or define static packages.

Debugger: Fixed the 80-character command line limitation for the History command. Now allows lines of arbitrary length. ACPICA BZ 1000. Chao Guan.

iASL: Added control method and package support for the -so option (generates AML offset table for BIOS support.)

iASL:

issue a remark if a non-serialized method creates named objects. If a thread blocks within the method for any reason, and another thread enters the method, the method will fail because an attempt will be made to create the same (named) object twice. In this case, issue a remark that the method should be marked serialized. NOTE: may become a warning later. ACPICA BZ 909.

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18 April 2013. Summary of changes for version 20130418:

1) ACPICA kernel-resident subsystem:

Fixed a possible buffer overrun during some rare but specific field unit read operations. This overrun can only happen if the DSDT version is 1 -- meaning that all AML integers are 32 bits -- and the field length is between 33 and 55 bits long. During the read, an internal buffer object is created for the field unit because the field is larger than an integer (32 bits). However, in this case, the buffer will be incorrectly written beyond the end because the buffer length is less than the internal minimum of 64 bits (8 bytes) long. The buffer will be either 5, 6, or 7 bytes long, but a full 8 bytes will be written.



Updated the Embedded Controller "orphan" \_REG method support. This refers to \_REG methods under the EC device that have no corresponding operation region. This is allowed by the ACPI specification. This update removes a dependency on the existence an ECDT table. It will execute an orphan \_REG method as long as the operation region handler for the EC is installed at the EC device node and not the namespace root. Rui Zhang (original update), Bob Moore (update/integrate).

Implemented run-time argument typechecking for all predefined ACPI names (\_STA, \_BIF, etc.) This change performs object typechecking on all incoming arguments for all predefined names executed via AcpiEvaluateObject. This ensures that ACPI-related device drivers are passing correct object types as well as the correct number of arguments (therefore identifying any issues immediately). Also, the ASL/namespace definition of the predefined name is checked against the ACPI specification for the proper argument count. Adds one new file, nsarguments.c

Changed an exception code for the ASL UnLoad() operator. Changed the exception code for the case where the input DdbHandle is invalid, from AE\_BAD\_PARAMETER to the more appropriate AE\_AML\_OPERAND\_TYPE.

Unix/Linux makefiles: Removed the use of the -O2 optimization flag in the global makefile. The use of this flag causes compiler errors on earlier versions of GCC, so it has been removed for compatibility.

Miscellaneous cleanup:

- 1) Removed some unused/obsolete macros
- 2) Fixed a possible memory leak in the \_OSI support
- 3) Removed an unused variable in the predefined name support
- 4) Windows OSL: remove obsolete reference to a memory list field

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:

Non-Debug Version: 95.2K Code, 26.4K Data, 121.6K Total

Debug Version: 183.0K Code, 76.0K Data, 259.0K Total

Previous Release:

Non-Debug Version: 95.6K Code, 26.8K Data, 122.4K Total

Debug Version: 183.5K Code, 76.6K Data, 260.1K Total



## 2) iASL Compiler/Disassembler and Tools:

AcpiExec: Added installation of a handler for the SystemCMOS address space. This prevents control method abort if a method accesses this space.

AcpiExec: Added support for multiple EC devices, and now install EC operation region handler(s) at the actual EC device instead of the namespace root. This reflects the typical behavior of host operating systems.

AcpiExec: Updated to ensure that all operation region handlers are installed before the \_REG methods are executed. This prevents a \_REG method from aborting if it accesses an address space has no handler.

AcpiExec installs a handler for every possible address space.

Debugger: Enhanced the "handlers" command to display non-root handlers. This change enhances the handlers command to display handlers associated with individual devices throughout the namespace, in addition to the currently supported display of handlers associated with the root namespace node.

ASL Test Suite: Several test suite errors have been identified and resolved, reducing the total error count during execution. Chao Guan.

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28 March 2013. Summary of changes for version 20130328:

### 1) ACPICA kernel-resident subsystem:

Fixed several possible race conditions with the internal object reference counting mechanism. Some of the external ACPICA interfaces update object reference counts without holding the interpreter or namespace lock. This change adds a spinlock to protect reference count updates on the internal ACPICA objects. Reported by and with assistance from Andriy Gapon (avg@FreeBSD.org).

FADT support: Removed an extraneous warning for very large GPE register sets. This change removes a size mismatch warning if the legacy length field for a GPE register set is larger than the 64-bit GAS structure can accommodate. GPE register sets can be larger than the 255-bit width limitation of the GAS structure. Linn Crosetto (linn@hp.com).

\_OSI Support: handle any errors from AcpiOsAcquireMutex. Check for error return from this interface. Handles a possible timeout case if



ACPI\_WAIT\_FOREVER is modified by the host to be a value less than "forever". Jung-uk Kim.

Predefined name support: Add allowed/required argument type information to the master predefined info table. This change adds the infrastructure to enable typechecking on incoming arguments for all predefined methods/objects. It does not actually contain the code that will fully utilize this information, this is still under development. Also condenses some duplicate code for the predefined names into a new module, utilities/utpredef.c

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 95.0K Code, 25.9K Data, 120.9K Total

Debug Version: 182.9K Code, 75.6K Data, 258.5K Total

Current Release:

Non-Debug Version: 95.2K Code, 26.4K Data, 121.6K Total

Debug Version: 183.0K Code, 76.0K Data, 259.0K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented a new option to simplify the development of ACPI-related

BIOS code. Adds support for a new "offset table" output file. The -so option will create a C table containing the AML table offsets of various named objects in the namespace so that BIOS code can modify them easily at

boot time. This can simplify BIOS runtime code by eliminating expensive

searches for "magic values", enhancing boot times and adding greater reliability. With assistance from Lee Hamel.

iASL: Allow additional predefined names to return zero-length packages. Now, all predefined names that are defined by the ACPI specification to return a "variable-length package of packages" are allowed to return a zero length top-level package. This allows the BIOS to tell the host that the requested feature is not supported, and supports existing BIOS/ASL code and practices.

iASL: Changed the "result not used" warning to an error. This is the case where an ASL operator is effectively a NOOP because the result of the



operation is not stored anywhere. For example:

Add (4, Local0)

There is no target (missing 3rd argument), nor is the function return value used. This is potentially a very serious problem -- since the code was probably intended to do something, but for whatever reason, the value was not stored. Therefore, this issue has been upgraded from a warning to an error.

AcpiHelp: Added allowable/required argument types to the predefined names info display. This feature utilizes the recent update to the predefined names table (above).

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14 February 2013. Summary of changes for version 20130214:

#### 1) ACPICA Kernel-resident Subsystem:

Fixed a possible regression on some hosts: Reinstated the safe return macros (return\_ACPI\_STATUS, etc.) that ensure that the argument is evaluated only once. Although these macros are not needed for the ACPICA code itself, they are often used by ACPI-related host device drivers where the safe feature may be necessary.

Fixed several issues related to the ACPI 5.0 reduced hardware support (SOC): Now ensure that if the platform declares itself as hardware-reduced via the FADT, the following functions become NOOPs (and always return AE\_OK) because ACPI is always enabled by definition on these machines:

- AcpiEnable
- AcpiDisable
- AcpiHwGetMode
- AcpiHwSetMode

Dynamic Object Repair: Implemented additional runtime repairs for predefined name return values. Both of these repairs can simplify code in the related device drivers that invoke these methods:

- 1) For the \_STR and \_MLS names, automatically repair/convert an ASCII string to a Unicode buffer.
  - 2) For the \_CRS, \_PRS, and \_DMA names, return a resource descriptor with a lone end tag descriptor in the following cases: A Return(0) was executed, a null buffer was returned, or no object at all was returned (non-slack mode only). Adds a new file, nsconvert.c
- ACPICA BZ 998. Bob Moore, Lv Zheng.

Resource Manager: Added additional code to prevent possible infinite



loops

while traversing corrupted or ill-formed resource template buffers. Check for zero-length resource descriptors in all code that loops through resource templates (the length field is used to index through the template). This change also hardens the external AcpiWalkResources and AcpiWalkResourceBuffer interfaces.

Local Cache Manager: Enhanced the main data structure to eliminate an unnecessary mechanism to access the next object in the list. Actually provides a small performance enhancement for hosts that use the local ACPIA cache manager. Jung-uk Kim.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 94.5K Code, 25.4K Data, 119.9K Total

Debug Version: 182.3K Code, 75.0K Data, 257.3K Total

Current Release:

Non-Debug Version: 95.0K Code, 25.9K Data, 120.9K Total

Debug Version: 182.9K Code, 75.6K Data, 258.5K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Fixed several issues with the definition of the ACPI 5.0 RASF table (RAS Feature Table). This change incorporates late changes that were made to the ACPI 5.0 specification.

iASL/Disassembler: Added full support for the following new ACPI tables:

- 1) The MTMR table (MID Timer Table)
- 2) The VRTC table (Virtual Real Time Clock Table).

Includes header file, disassembler, table compiler, and template support for both tables.

iASL: Implemented compile-time validation of package objects returned by predefined names. This new feature validates static package objects returned by the various predefined names defined to return packages. Both object types and package lengths are validated, for both parent packages and sub-packages, if any. The code is similar in structure and behavior to

the runtime repair mechanism within the AML interpreter and uses the existing predefined name information table. Adds a new file, aslprepkg.c. ACPIA BZ 938.



iASL: Implemented auto-detection of binary ACPI tables for disassembly. This feature detects a binary file with a valid ACPI table header and invokes the disassembler automatically. Eliminates the need to specifically invoke the disassembler with the -d option. ACPICA BZ 862.

iASL/Disassembler: Added several warnings for the case where there are unresolved control methods during the disassembly. This can potentially cause errors when the output file is compiled, because the disassembler assumes zero method arguments in these cases (it cannot determine the actual number of arguments without resolution/definition of the method).

Debugger: Added support to display all resources with a single command. Invocation of the resources command with no arguments will now display all resources within the current namespace.

AcpiHelp: Added descriptive text for each ACPICA exception code displayed via the -e option.

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17 January 2013. Summary of changes for version 20130117:

#### 1) ACPICA Kernel-resident Subsystem:

Updated the AcpiGetSleepTypeData interface: Allow the \\_Sx methods to return either 1 or 2 integers.

Although the ACPI spec defines the \\_Sx objects to return a package containing one integer, most BIOS code returns two integers and the previous code reflects that. However, we also need to support BIOS code that actually implements to the ACPI spec, and this change reflects this.

Fixed two issues with the ACPI\_DEBUG\_PRINT macros:

- 1) Added the ACPI\_DO\_WHILE macro to the main DEBUG\_PRINT helper macro for C compilers that require this support.
- 2) Renamed the internal ACPI\_DEBUG macro to ACPI\_DO\_DEBUG\_PRINT since ACPI\_DEBUG is already used by many of the various hosts.

Updated all ACPICA copyrights and signons to 2013. Added the 2013 copyright to all module headers and signons, including the standard Linux header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, all ACPICA utilities, and the test suites.

Example Code and Data Size: These are the sizes for the OS-independent



acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler.

The

debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 94.5K Code, 25.5K Data, 120.0K Total

Debug Version: 182.2K Code, 74.9K Data, 257.1K Total

Current Release:

Non-Debug Version: 94.5K Code, 25.4K Data, 119.9K Total

Debug Version: 182.3K Code, 75.0K Data, 257.3K Total

## 2) iASL Compiler/Disassembler and Tools:

Generic Unix OSL: Use a buffer to eliminate multiple `fprintf()`s and prevent a possible fault on some hosts. Some C libraries modify the `arg` pointer parameter to `fprintf` making it difficult to call it twice in the `AcpiOsVprintf` function. Use a local buffer to workaround this issue. This does not affect the Windows OSL since the Win C library does not modify the `arg` pointer. Chao Guan, Bob Moore.

iASL: Fixed a possible infinite loop when the maximum error count is reached. If an output file other than the .AML file is specified (such as a listing

file), and the maximum number of errors is reached, do not attempt to flush data to the output file(s) as the compiler is aborting. This can cause an infinite loop as the max error count code essentially keeps calling itself.

iASL/Disassembler: Added an option (-in) to ignore NOOP opcodes/operators.

Implemented for both the compiler and the disassembler. Often, the NOOP opcode is used as padding for packages that are changed dynamically by the

BIOS. When disassembled and recompiled, these NOOPs will cause syntax errors. This option causes the disassembler to ignore all NOOP opcodes (0xA3), and it also causes the compiler to ignore all ASL source code NOOP statements as well.

Debugger: Enhanced the Sleep command to execute all sleep states. This change allows Sleep to be invoked with no arguments and causes the debugger to execute all of the sleep states, 0-5, automatically.

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20 December 2012. Summary of changes for version 20121220:



1)

#### ACPICA Kernel-resident Subsystem:

Implemented a new interface, `AcpiWalkResourceBuffer`. This interface is an alternate entry point for `AcpiWalkResources` and improves the usability of the resource manager by accepting as input a buffer containing the output of either a `_CRS`, `_PRS`, or `_AEI` method. The key functionality is that the input buffer is not deleted by this interface so that it can be used by the host later. See the ACPICA reference for details.

Interpreter: Add a warning if a 64-bit constant appears in a 32-bit table (DSDT version < 2). The constant will be truncated and this warning reflects that behavior.

Resource Manager: Add support for the new ACPI 5.0 wake bit in the `IRQ`, `ExtendedInterrupt`, and `GpioInt` descriptors. This change adds support to both get and set the new wake bit in these descriptors, separately from the existing share bit. Reported by Aaron Lu.

Interpreter: Fix `Store()` when an implicit conversion is not possible. For example, in the cases such as a store of a string to an existing package object, implement the store as a `CopyObject()`. This is a small departure from the ACPI specification which states that the control method should be aborted in this case. However, the ASLTS suite depends on this behavior.

Performance improvement for the various `FUNCTION_TRACE` and `DEBUG_PRINT` macros: check if debug output is currently enabled as soon as possible to minimize performance impact if debug is in fact not enabled.

Source code restructuring: Cleanup to improve modularity. The following new files have been added: `dbconvert.c`, `evhandler.c`, `nsprepkg.c`, `psopinfo.c`, `psobject.c`, `rsdumpinfo.c`, `utstring.c`, and `utownerid.c`. Associated makefiles and project files have been updated.

Changed an exception code for `LoadTable` operator. For the case where one of the input strings is too long, change the returned exception code from `AE_BAD_PARAMETER` to `AE_AML_STRING_LIMIT`.

Fixed a possible memory leak in dispatcher error path. On error, delete the mutex object created during method mutex creation. Reported by [tim.gardner@canonical.com](mailto:tim.gardner@canonical.com).

Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and



has a much larger code and data size.

Previous Release:

Non-Debug Version: 94.3K Code, 25.3K Data, 119.6K Total

Debug Version: 175.5K Code, 74.5K Data, 250.0K Total

Current Release:

Non-Debug Version: 94.5K Code, 25.5K Data, 120.0K Total

Debug Version: 182.2K Code, 74.9K Data, 257.1K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Disallow a method call as argument to the ObjectType ASL operator. This change tracks an errata to the ACPI 5.0 document. The AML grammar will not allow the interpreter to differentiate between a method and a method invocation when these are used as an argument to the ObjectType operator.

The ACPI specification change is to disallow a method invocation (UserTerm) for the ObjectType operator.

Finish support for the TPM2 and CSRT tables in the headers, table compiler, and disassembler.

Unix user-space OSL: Fix a problem with WaitSemaphore where the timeout always expires immediately if the semaphore is not available. The original code was using a relative-time timeout, but sem\_timedwait requires the use of an absolute time.

iASL: Added a remark if the Timer() operator is used within a 32-bit table. This operator returns a 64-bit time value that will be truncated within a 32-bit table.

iASL Source code restructuring: Cleanup to improve modularity. The following new files have been added: aslhex.c, aslxref.c, aslnamesp.c, aslmethod.c, and aslfileio.c. Associated makefiles and project files have been updated.

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14 November 2012. Summary of changes for version 20121114:

1) ACPICA Kernel-resident Subsystem:

Implemented



a performance enhancement for ACPI/AML Package objects. This change greatly increases the performance of Package objects within the interpreter. It changes the processing of reference counts for packages by optimizing for the most common case where the package sub-objects are either Integers, Strings, or Buffers. Increases the overall performance of the ASLTS test suite by 1.5X (Increases the Slack Mode performance by 2X.)  
Chao Guan. ACPICA BZ 943.

Implemented and deployed common macros to extract flag bits from resource descriptors. Improves readability and maintainability of the code. Fixes a problem with the UART serial bus descriptor for the number of data bits flags (was incorrectly 2 bits, should be 3).

Enhanced the ACPI\_GETx and ACPI\_SETx macros. Improved the implementation of the macros and changed the SETx macros to the style of (destination, source). Also added ACPI\_CASTx companion macros. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 93.9K Code, 25.2K Data, 119.1K Total

Debug Version: 175.5K Code, 74.5K Data, 250.0K Total

Current Release:

Non-Debug Version: 94.3K Code, 25.3K Data, 119.6K Total

Debug Version: 175.5K Code, 74.5K Data, 250.0K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Added the new ACPI 5.0 interrupt sharing flags. This change adds the ShareAndWake and ExclusiveAndWake flags which were added to the Irq, Interrupt, and Gpio resource descriptors in ACPI 5.0. ACPICA BZ 986.

Disassembler: Fixed a problem with external declaration generation. Fixes a problem where an incorrect pathname could be generated for an external declaration if the original reference to the object includes leading carats (^). ACPICA BZ 984.

Debugger:



Completed a major update for the Disassemble<method> command. This command was out-of-date and did not properly disassemble control methods that had any reasonable complexity. This fix brings the command up

to the same level as the rest of the disassembler. Adds one new file, dmdeferred.c, which is existing code that is now common with the main disassembler and the debugger disassemble command. ACPICA MZ 978.

iASL: Moved the parser entry prototype to avoid a duplicate declaration. Newer versions of Bison emit this prototype, so moved the prototype out of the iASL header to where it is actually used in order to avoid a duplicate declaration.

iASL/Tools: Standardized use of the stream I/O functions:

- 1) Ensure check for I/O error after every fopen/fread/fwrite
- 2) Ensure proper order of size/count arguments for fread/fwrite
- 3) Use test of (Actual != Requested) after all fwrite, and most fread
- 4) Standardize I/O error messages

Improves reliability and maintainability of the code. Bob Moore, Lv Zheng.

ACPICA BZ 981.

Disassembler: Prevent duplicate External() statements. During generation of external statements, detect similar pathnames that are actually duplicates such as these:

External (\ABCD)  
External (ABCD)

Remove all leading '\' characters from pathnames during the external statement generation so that duplicates will be detected and tossed.

ACPICA BZ 985.

Tools: Replace low-level I/O with stream I/O functions. Replace open/read/write/close with the stream I/O equivalents fopen/fread/fwrite/fclose for portability and performance. Lv Zheng, Bob Moore.

AcpiBin: Fix for the dump-to-hex function. Now correctly output the table name header so that AcpiXtract recognizes the output file/table.

iASL: Remove obsolete -2 option flag. Originally intended to force the compiler/disassembler into an ACPI 2.0 mode, this was never implemented and the entire concept is now obsolete.

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18 October



## 2012. Summary of changes for version 20121018:

### 1) ACPICA Kernel-resident Subsystem:

Updated support for the ACPI 5.0 MPST table. Fixes some problems introduced by late changes to the table as it was added to the ACPI 5.0 specification. Includes header, disassembler, and data table compiler support as well as a new version of the MPST template.

AcpiGetObjectInfo: Enhanced the device object support to include the ACPI 5.0 \_SUB method. Now calls \_SUB in addition to the other PNP-related ID methods: \_HID, \_CID, and \_UID.

Changed ACPI\_DEVICE\_ID to ACPI\_PNP\_DEVICE\_ID. Also changed ACPI\_DEVICE\_ID\_LIST to ACPI\_PNP\_DEVICE\_ID\_LIST. These changes prevent name collisions on hosts that reserve the \*\_DEVICE\_ID (or \*DeviceId) names for their various drivers. Affects the AcpiGetObjectInfo external interface, and other internal interfaces as well.

Added and deployed a new macro for ACPI\_NAME management: ACPI\_MOVE\_NAME. This macro resolves to a simple 32-bit move of the 4-character ACPI\_NAME

on machines that support non-aligned transfers. Optimizes for this case rather than using a strncpy. With assistance from Zheng Lv.

Resource Manager: Small fix for buffer size calculation. Fixed a one byte error in the output buffer calculation. Feng Tang. ACPICA BZ 849.

Added a new debug print message for AML mutex objects that are force-released. At control method termination, any currently acquired mutex objects are force-released. Adds a new debug-only message for each one that is released.

Audited/updated all ACPICA return macros and the function debug depth counter: 1) Ensure that all functions that use the various TRACE macros also use the appropriate ACPICA return macros. 2) Ensure that all normal return statements surround the return expression (value) with parens to ensure consistency across the ACPICA code base. Guan Chao, Tang Feng, Zheng Lv, Bob Moore. ACPICA Bugzilla 972.

Global source code changes/maintenance: All extra lines at the start and end of each source file have been removed for consistency. Also, within comments, all new sentences start with a single space instead of a double space, again for consistency across the code base.

Example Code and Data Size: These are the sizes for the OS-independent



acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 93.7K Code, 25.3K Data, 119.0K Total

Debug Version: 175.0K Code, 74.4K Data, 249.4K Total

Current Release:

Non-Debug Version: 93.9K Code, 25.2K Data, 119.1K Total

Debug Version: 175.5K Code, 74.5K Data, 250.0K Total

## 2) iASL Compiler/Disassembler and Tools:

AcpiExec: Improved the algorithm used for memory leak/corruption detection. Added some intelligence to the code that maintains the global list of allocated memory. The list is now ordered by allocated memory address,

significantly improving performance. When running AcpiExec on the ASLTS test suite, speed improvements of 3X to 5X are seen, depending on the platform and/or the environment. Note, this performance enhancement affects the AcpiExec utility only, not the kernel-resident ACPICA code.

Enhanced error reporting for invalid AML opcodes and bad ACPI\_NAMES. For the disassembler, dump the 48 bytes surrounding the invalid opcode. Fix incorrect table offset reported for invalid opcodes. Report the original 32-bit value for bad ACPI\_NAMES (as well as the repaired name.)

Disassembler: Enhanced the -vt option to emit the binary table data in hex format to assist with debugging.

Fixed a potential filename buffer overflow in osunixdir.c. Increased the size of file structure. Colin Ian King.

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13 September 2012. Summary of changes for version 20120913:

### 1) ACPICA Kernel-resident Subsystem:

ACPI 5.0: Added two new notify types for the Hardware Error Notification

Structure within the Hardware Error Source Table (HEST) table -- CMCI(5) and MCE(6).

Table Manager: Merged/removed duplicate code in the root table resize



functions. One function is external, the other is internal. Lv Zheng,  
ACPICA  
BZ 846.

Makefiles: Completely removed the obsolete "Linux" makefiles under  
acpica/generate/linux. These makefiles are obsolete and have been  
replaced  
by  
the generic unix makefiles under acpica/generate/unix.

Makefiles: Ensure that binary files always copied properly. Minor rule  
change  
to ensure that the final binary output files are always copied up to the  
appropriate binary directory (bin32 or bin64.)

Example Code and Data Size: These are the sizes for the OS-independent  
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The  
debug  
version of the code includes the debug output trace mechanism and has a  
much  
larger code and data size.

Previous Release:

Non-Debug Version: 93.8K Code, 25.3K Data,  
119.1K Total

Debug Version: 175.7K Code, 74.8K Data, 250.5K Total

Current Release:

Non-Debug Version: 93.7K Code, 25.3K Data, 119.0K Total

Debug Version: 175.0K Code, 74.4K Data, 249.4K Total

## 2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a possible fault during the disassembly of resource  
descriptors when a second parse is required because of the invocation of  
external control methods within the table. With assistance from  
adq@lidskialf.net. ACPICA BZ 976.

iASL: Fixed a namepath optimization problem. An error can occur if the  
parse  
node that contains the namepath to be optimized does not have a parent  
node  
that is a named object. This change fixes the problem.

iASL: Fixed a regression where the AML file is not deleted on errors. The  
AML  
output file should be deleted if there are any errors during the  
compiler.



The

only exception is if the -f (force output) option is used. ACPICA BZ 974.

iASL: Added a feature to automatically increase internal line buffer sizes.

Via realloc(), automatically increase the internal line buffer sizes as necessary to support very long source code lines. The current version of the preprocessor requires a buffer long enough to contain full source code lines.

This change increases the line buffer(s) if the input lines go beyond the current buffer size. This eliminates errors that occurred when a source code line was longer than the buffer.

iASL: Fixed a problem with constant folding in method declarations. The SyncLevel term is a ByteConstExpr, and incorrect code would be generated if a Type3 opcode was used.

Debugger: Improved command help support. For incorrect argument count, display full help for the command. For help command itself, allow an argument to specify a command.

Test Suites: Several bug fixes for the ASLTS suite reduces the number of errors during execution of the suite. Guan Chao.

-----

16 August 2012. Summary of changes  
for version 20120816:

#### 1) ACPICA Kernel-resident Subsystem:

Removed all use of the deprecated \_GTS and \_BFS predefined methods. The \_GTS

(Going To Sleep) and \_BFS (Back From Sleep) methods are essentially deprecated and will probably be removed from the ACPI specification.

Windows

does not invoke them, and reportedly never will. The final nail in the coffin

is that the ACPI specification states that these methods must be run with interrupts off, which is not going to happen in a kernel interpreter.

Note:

Linux has removed all use of the methods also. It was discovered that invoking these functions caused failures on some machines, probably



because  
they were never tested since Windows does not call them. Affects two  
external  
interfaces, AcpiEnterSleepState and AcpiLeaveSleepStatePrep. Tang Feng.  
ACPICA BZ 969.

Implemented support for complex bit-packed buffers returned from the \_PLD  
(Physical Location of Device) predefined method. Adds a new external  
interface,

AcpiDecodePldBuffer that parses the buffer into a more usable

C

structure. Note: C Bitfields cannot be used for this type of predefined  
structure since the memory layout of individual bitfields is not defined  
by

the C language. In addition, there are endian concerns where a compiler  
will

change the bitfield ordering based on the machine type. The new ACPICA  
interface eliminates these issues, and should be called after \_PLD is  
executed. ACPICA BZ 954.

Implemented a change to allow a scope change to root (via "Scope (\)")  
during  
execution of module-level ASL code (code that is executed at table load  
time.) Lin Ming.

Added the Windows8/Server2012 string for the \_OSI method. This change  
adds

a

new \_OSI string, "Windows 2012" for both Windows 8 and Windows Server  
2012.

Added header support for the new ACPI tables DBG2 (Debug Port Table Type  
2)  
and CSRT (Core System Resource Table).

Added struct header support for the \_FDE, \_GRT, \_GTM, and \_SRT predefined  
names. This

simplifies access to the buffers returned by these predefined  
names. Adds a new file, include/acbuffer.h. ACPICA BZ 956.

GPE support: Removed an extraneous parameter from the various low-level  
internal GPE functions. Tang Feng.

Removed the linux makefiles from the unix packages. The generate/linux  
makefiles are obsolete and have been removed from the unix tarball  
release

packages. The replacement makefiles are under generate/unix, and there is  
a



top-level makefile under the main acpica directory. ACPICA BZ 967, 912.

Updates for Unix makefiles:

- 1) Add -D\_FORTIFY\_SOURCE=2 for gcc generation. Arjan van de Ven.
- 2) Update linker flags (move to end of command line) for AcpiExec utility.

Guan Chao.

Split ACPICA initialization functions to new file, utxfinit.c. Split from utxface.c to improve modularity and reduce file size.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version

of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 93.5K Code, 25.3K Data, 118.8K Total

Debug Version: 173.7K Code, 74.0K Data, 247.7K Total

Current Release:

Non-Debug Version: 93.8K Code, 25.3K Data, 119.1K Total

Debug Version: 175.7K Code, 74.8K Data, 250.5K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem with constant folding for fixed-length constant expressions. The constant-folding code was not being invoked for constant expressions that allow the use of type 3/4/5 opcodes to generate constants for expressions such as ByteConstExpr, WordConstExpr, etc. This could result in the generation of invalid AML bytecode. ACPICA BZ 970.

iASL: Fixed a generation issue on newer versions of Bison. Newer versions apparently automatically emit some of the necessary externals. This change handles these versions in order to eliminate generation warnings.

Disassembler: Added support to decode the DBG2 and CSRT ACPI tables.

Disassembler: Add support to decode \_PLD buffers. The decoded buffer appears within comments in the output file.



Debugger: Fixed a regression with the "Threads" command where AE\_BAD\_PARAMETER was always returned.

-----

11 July 2012. Summary of changes for version 20120711:

1) ACPICA Kernel-resident Subsystem:

Fixed a possible fault in the return package object repair code. Fixes a problem that can occur when a lone package object is wrapped with an outer

package object in order to force conformance to the ACPI specification.

Can

affect these predefined names: \_ALR, \_MLS, \_PSS, \_TRT, \_TSS, \_PRT, \_HPX, \_DLM, \_CSD, \_PSD, \_TSD.

Removed code to disable/enable bus master arbitration (ARB\_DIS bit in the PM2\_CNT register) in the ACPICA sleep/wake interfaces. Management of the ARB\_DIS bit must be implemented in the host-dependent C3 processor power state support.

Note, ARB\_DIS is obsolete and only applies to older chipsets, both

Intel and other vendors. (for Intel: ICH4-M and earlier)

This change removes the code to disable/enable bus master arbitration during

suspend/resume. Use of the ARB\_DIS bit in the optional PM2\_CNT register causes

resume problems on some machines. The change has been in use for over seven years within Linux.

Implemented two new external interfaces to support host-directed dynamic ACPI

table load and unload. They are intended to simplify the host implementation

of hot-plug support:

AcpiLoadTable: Load an SSDT from a buffer into the namespace.

AcpiUnloadParentTable: Unload an SSDT via a named object owned by the table.

See the ACPICA reference for additional details. Adds one new file, components/tables/tbxfload.c

Implemented and deployed two new interfaces for errors and warnings that are

known to be caused by BIOS/firmware issues:



AcpiBiosError: Prints "ACPI Firmware Error" message.

AcpiBiosWarning:

Prints "ACPI Firmware Warning" message.

Deployed these new interfaces in the ACPICA Table Manager code for ACPI table

and FADT errors. Additional deployment to be completed as appropriate in the

future. The associated conditional macros are ACPI\_BIOS\_ERROR and ACPI\_BIOS\_WARNING. See the ACPICA reference for additional details. ACPICA

BZ

843.

Implicit notify support: ensure that no memory allocation occurs within a critical region. This fix moves a memory allocation outside of the time that a

spinlock is held. Fixes issues on systems that do not allow this behavior.

Jung-uk Kim.

Split exception code utilities and tables into a new file, utilities/utexcep.c

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug

version of the code includes the debug output trace mechanism and has a much

larger code and data size.

Previous Release:

Non-Debug Version: 93.1K Code,  
25.1K Data, 118.2K Total

Debug Version: 172.9K Code, 73.6K Data, 246.5K Total

Current Release:

Non-Debug Version: 93.5K Code, 25.3K Data, 118.8K Total

Debug Version: 173.7K Code, 74.0K Data, 247.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a parser problem for hosts where EOF is defined as -1 instead of

0. Jung-uk Kim.

Debugger: Enhanced the "tables" command to emit additional information about

the current set of ACPI tables, including the owner ID and flags decode.



Debugger: Reimplemented the "unload" command to use the new AcpiUnloadParentTable external interface. This command was disabled previously due to need for an unload interface.

AcpiHelp: Added a new option to decode ACPICA exception codes. The -e option will decode 16-bit hex status codes (ACPI\_STATUS) to name strings.

-----  
20 June 2012. Summary of changes for version 20120620:

#### 1) ACPICA Kernel-resident Subsystem:

Implemented support to expand the "implicit notify" feature to allow multiple devices to be notified by a single GPE. This feature automatically generates a runtime device notification in the absence of a BIOS-provided GPE control method (\_Lxx/\_Exx) or a host-installed handler for the GPE. Implicit notify is provided by ACPICA for Windows compatibility, and is a workaround for BIOS AML code errors. See the description of the AcpiSetupGpeForWake interface in the APCICA reference. Bob Moore, Rafael Wysocki. ACPICA BZ 918.

Changed some comments and internal function names to simplify and ensure correctness of the Linux code translation. No functional changes.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

#### Previous Release:

Non-Debug Version: 93.0K Code, 25.1K Data, 118.1K Total

Debug Version: 172.7K Code, 73.6K Data, 246.3K Total

#### Current Release:

Non-Debug Version: 93.1K Code, 25.1K Data, 118.2K Total

Debug Version: 172.9K Code, 73.6K Data, 246.5K Total



## 2) iASL Compiler/Disassembler and Tools:

Disassembler: Added support to emit short, commented descriptions for the ACPI

predefined names in order to improve the readability of the disassembled output. ACPICA BZ 959. Changes include:

- 1) Emit descriptions for all standard predefined names (\_INI, \_STA, \_PRW, etc.)
- 2) Emit generic descriptions for the special names (\_Exx, \_Qxx, etc.)
- 3) Emit descriptions for the resource descriptor names (\_MIN, \_LEN, etc.)

AcpiSrc: Fixed several long-standing Linux code translation issues.

Argument

descriptions in function headers are now translated properly to lower case

and

underscores. ACPICA BZ 961. Also fixes translation problems such as these:

(old -> new)

i\_aSL -> iASL

00-7\_f -> 00-7F

16\_k -> 16K

local\_fADT -> local\_FADT

execute\_oSI -> execute\_OSI

iASL: Fixed a problem where null bytes were inadvertently emitted into some

listing files.

iASL: Added the existing debug options to the standard help screen. There are

no longer two different help screens. ACPICA BZ 957.

AcpiHelp: Fixed some typos in the various predefined name descriptions.

Also

expand some of the descriptions where appropriate.

iASL: Fixed the -ot option (display compile times/statistics). Was not working

properly for standard output; only worked for the debug file case.

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18 May 2012. Summary of changes for version 20120518:



## 1) ACPICA Core Subsystem:

Added a new OSL interface, `AcpiOsWaitEventsComplete`. This interface is defined

to block until asynchronous events such as notifies and GPEs have completed.

Within ACPICA, it is only called before a notify or GPE handler is removed/uninstalled. It also may be useful for the host OS within related drivers such as the Embedded

Controller driver. See the ACPICA reference for additional information. ACPICA BZ 868.

ACPI Tables: Added a new error message for a possible overflow failure during

the conversion of FADT 32-bit legacy register addresses to internal common

64-

bit GAS structure representation. The GAS has a one-byte "bit length" field,

thus limiting the register length to 255 bits. ACPICA BZ 953.

Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug

version of the code includes the debug output trace mechanism and has a much

larger code and data size.

### Previous Release:

Non-Debug Version: 92.9K Code, 25.0K Data, 117.9K Total

Debug Version: 172.6K Code, 73.4K Data, 246.0K Total

### Current Release:

Non-Debug Version: 93.0K Code, 25.1K Data, 118.1K Total

Debug Version: 172.7K Code, 73.6K Data, 246.3K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Added the ACPI

5.0 "PCC" keyword for use in the `Register()` ASL macro.

This keyword was added late in the ACPI 5.0 release cycle and was not implemented until now.

Disassembler: Added support for Operation Region externals. Adds missing support for operation regions that are defined in another table, and



referenced locally via a Field or BankField ASL operator. Now generates the correct External statement.

Disassembler: Several additional fixes for the External() statement generation related to some ASL operators. Also, order the External() statements alphabetically in the disassembler output. Fixes the External() generation for the Create\* field, Alias, and Scope operators:

- 1) Create\* buffer field operators - fix type mismatch warning on disassembly
- 2) Alias - implement missing External support
- 3) Scope - fix to make sure all necessary externals are emitted.

iASL: Improved pathname support. For include files, merge the prefix pathname with the file pathname and eliminate unnecessary components. Convert backslashes in all pathnames to forward slashes, for readability. Include file pathname changes affect both #include and Include() type operators.

iASL/DTC/Preprocessor: Gracefully handle early EOF. Handle an EOF at the end of a valid line by inserting a newline and then returning the EOF during the next call to GetNextLine. Prevents the line from being ignored due to EOF condition.

iASL: Implemented some changes to enhance the IDE support (-vi option.) Error and Warning messages are now correctly recognized for both the source code browser and the global error and warning counts.

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20 April 2012. Summary of changes for version 20120420:

#### 1) ACPICA Core Subsystem:

Implemented support for multiple notify handlers. This change adds support to allow multiple system and device notify handlers on Device, Thermal Zone, and



Processor objects. This can simplify the host OS notification implementation.

Also

re-worked and restructured the entire notify support code to simplify

handler installation, handler removal, notify event queuing, and notify dispatch to handler(s). Note: there can still only be two global notify handlers - one for system notifies and one for device notifies. There are no

changes to the existing handler install/remove interfaces. Lin Ming, Bob Moore, Rafael Wysocki.

Fixed a regression in the package repair code where the object reference count was calculated incorrectly. Regression was introduced in the commit "Support to add Package wrappers".

Fixed a couple possible memory leaks in the AML parser, in the error recovery path. Jesper Juhl, Lin Ming.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 92.9K

Code, 25.0K Data, 117.9K Total

Debug Version: 172.5K Code, 73.2K Data, 245.7K Total

Current Release:

Non-Debug Version: 92.9K Code, 25.0K Data, 117.9K Total

Debug Version: 172.6K Code, 73.4K Data, 246.0K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem with the resource descriptor support where the length

of the StartDependentFn and StartDependentFnNoPrio descriptors were not included in cumulative descriptor offset, resulting in incorrect values for

resource tags within resource descriptors appearing after a StartDependent\*

descriptor. Reported by Petr Vandrovec. ACPICA BZ 949.

iASL and Preprocessor: Implemented full support for the #line directive to



correctly track original source file line numbers through the .i  
preprocessor  
output file - for error and warning messages.

iASL: Expand the allowable byte constants for address space IDs.  
Previously,  
the allowable range was 0x80-0xFF (user-defined spaces), now the range is  
0x0A-0xFF to allow for custom and new IDs without changing the compiler.

iASL: Add option to treat all warnings as errors (-we). ACPICA BZ 948.

iASL: Add option to completely disable the preprocessor (-Pn).

iASL: Now emit all error/warning messages to standard error (stderr) by  
default (instead of the previous stdout).

ASL Test Suite (ASLTS): Reduce iASL warnings due to use of Switch().  
Update  
for resource descriptor offset fix above. Update/cleanup error output  
routines. Enable and send iASL errors/warnings to an error logfile  
(error.txt). Send all other iASL output to a logfile (compiler.txt).  
Fixed  
several extraneous "unrecognized operator" messages.

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20 March 2012. Summary of changes for version 20120320:

#### 1) ACPICA Core Subsystem:

Enhanced the sleep/wake interfaces to optionally execute the \_GTS method  
(Going To Sleep) and the \_BFS method (Back From Sleep). Windows  
apparently  
does not execute these methods, and therefore these  
methods are often  
untested. It has been seen on some systems where the execution of these  
methods causes errors and also prevents the machine from entering S5. It  
is  
therefore suggested that host operating systems do not execute these  
methods  
by default. In the future, perhaps these methods can be optionally  
executed  
based on the age of the system and/or what is the newest version of  
Windows  
that the BIOS asks for via \_OSI. Changed interfaces: AcpiEnterSleepState  
and  
AcpiLeaveSleepStatePrep. See the ACPICA reference and Linux BZ 13041. Lin



Ming.

Fixed a problem where the length of the local/common FADT was set too early.

The local FADT table length cannot be set to the common length until the original length has been examined. There is code that checks the table length and sets various fields appropriately. This can affect older machines with early FADT versions. For example, this can cause inadvertent writes to the CST\_CNT register. Julian Anastasov.

Fixed

a mapping issue related to a physical table override. Use the deferred mapping mechanism for tables loaded via the physical override OSL interface.

This allows for early mapping before the virtual memory manager is available.

Thomas Renninger, Bob Moore.

Enhanced the automatic return-object repair code: Repair a common problem with

predefined methods that are defined to return a variable-length Package of

sub-objects. If there is only one sub-object, some BIOS ASL code mistakenly

simply returns the single object instead of a Package with one sub-object.

This new support will repair this error by wrapping a Package object around

the original object, creating the correct and expected Package with one sub-

object. Names that can be repaired in this manner include: \_ALR, \_CSD, \_HPX,

\_MLS, \_PLD, \_PRT, \_PSS, \_TRT, \_TSS, \_BCL, \_DOD, \_FIX, and \_Sx. ACPIA BZ 939.

Changed the exception code returned for invalid ACPI paths passed as parameters to external interfaces such as

AcpiEvaluateObject. Was

AE\_BAD\_PARAMETER, now is the more sensible AE\_BAD\_PATHNAME.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug

version of the code includes the debug output trace mechanism and has a



much  
larger code and data size.

Previous Release:

Non-Debug Version: 93.0K Code, 25.0K Data, 118.0K Total

Debug Version: 172.5K Code, 73.2K Data, 245.7K Total

Current Release:

Non-Debug Version: 92.9K Code, 25.0K Data, 117.9K Total

Debug Version: 172.5K Code, 73.2K Data, 245.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Added the infrastructure and initial implementation of a integrated C-

like preprocessor. This will simplify BIOS development process by eliminating

the need for a separate preprocessing step during builds. On Windows, it also

eliminates the need to install a separate C compiler. ACPICA BZ 761. Some features including

full #define() macro support are still under development.

These preprocessor directives are supported:

#define

#elif

#else

#endif

#error

#if

#ifdef

#ifndef

#include

#pragma message

#undef

#warning

In addition, these new command line options are supported:

-D <symbol> Define symbol for preprocessor use

-li Create preprocessed output file (\*.i)

-P Preprocess only and create preprocessor output file (\*.i)

Table Compiler: Fixed a problem where the equals operator within an expression

did not work properly.

Updated iASL to use the current versions of Bison/Flex. Updated the Windows

project file to invoke these tools from the standard location. ACPICA BZ



904.

Versions supported:

Flex for Windows: V2.5.4

Bison for Windows: V2.4.1

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15 February 2012. Summary of changes for version 20120215:

1) ACPICA Core Subsystem:

There have been some major changes  
to the sleep/wake support code, as  
described below (a - e).

a) The AcpiLeaveSleepState has been split into two interfaces, similar to  
AcpiEnterSleepStatePrep and AcpiEnterSleepState. The new interface is  
AcpiLeaveSleepStatePrep. This allows the host to perform actions between  
the  
time the \_BFS method is called and the \_WAK method is called. NOTE: all  
hosts  
must update their wake/resume code or else sleep/wake will not work  
properly.  
Rafael Wysocki.

b) In AcpiLeaveSleepState, now enable all runtime GPEs before calling the  
\_WAK  
method. Some machines require that the GPEs are enabled before the \_WAK  
method  
is executed. Thomas Renninger.

c) In AcpiLeaveSleepState, now always clear the WAK\_STS (wake status)  
bit.  
Some BIOS code assumes that WAK\_STS will be cleared on resume and use it  
to  
determine whether the system is rebooting or resuming. Matthew Garrett.

d) Move the invocations of \_GTS (Going To Sleep) and \_BFS (Back From  
Sleep) to  
match the ACPI specification requirement.  
Rafael Wysocki.

e) Implemented full support for the ACPI 5.0 SleepStatus and SleepControl  
registers within the V5 FADT. This support adds two new files:  
hardware/hwesleep.c implements the support for the new registers. Moved  
all  
sleep/wake external interfaces to hardware/hwxfsleep.c.



Added a new OSL interface for ACPI table overrides, `AcpiOsPhysicalTableOverride`. This interface allows the host to override a table via a physical address, instead of the logical address required by `AcpiOsTableOverride`. This simplifies the host implementation. Initial implementation by Thomas Renninger. The ACPICA implementation creates a single shared function for table overrides that attempts both a logical and a physical override.

Expanded the OSL memory read/write interfaces to 64-bit data (`AcpiOsReadMemory`, `AcpiOsWriteMemory`.) This enables full 64-bit memory transfer support for GAS register structures passed to `AcpiRead` and `AcpiWrite`.

Implemented the `ACPI_REDUCED_HARDWARE` option to allow the creation of a custom build of ACPICA that supports only the ACPI 5.0 reduced hardware (SoC) model. See the ACPICA reference for details. ACPICA BZ 942. This option removes about 10% of the code and 5% of the static data, and the following hardware ACPI features become unavailable:

- PM Event and Control registers
- SCI interrupt (and handler)
- Fixed Events
- General Purpose Events (GPEs)
- Global Lock
- ACPI PM timer
- FACS table (Waking vectors and Global Lock)

Updated the unix tarball directory structure to match the ACPICA git source tree. This ensures that the generic unix makefiles work properly (in `generate/unix`). Also updated the Linux makefiles to match. ACPICA BZ 867.

Updated the return value of the `_REV` predefined method to integer value 5 to reflect ACPI 5.0 support.

Moved the external ACPI PM timer interface prototypes to the public `acpixf.h` file where they belong.

Example Code and Data Size: These are the sizes for the



OS-independent  
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The  
debug  
version of the code includes the debug output trace mechanism and has a  
much  
larger code and data size.

Previous Release:

Non-Debug Version: 92.8K Code, 24.9K Data, 117.7K Total

Debug Version: 171.7K Code, 72.9K Data, 244.5K Total

Current Release:

Non-Debug Version: 93.0K Code, 25.0K Data, 118.0K Total

Debug Version: 172.5K Code, 73.2K Data, 245.7K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a problem with the new ACPI 5.0 serial resource  
descriptors (I2C, SPI, UART) where the resource produce/consumer bit was  
incorrectly displayed.

AcpiHelp: Add display of ACPI/PNP device IDs that are defined in the ACPI  
specification.

-----  
11 January 2012. Summary of changes for version 20120111:

1) ACPICA Core Subsystem:

Implemented a new mechanism to allow host device drivers to check for  
address  
range  
conflicts with ACPI Operation Regions. Both SystemMemory and  
SystemIO  
address spaces are supported. A new external interface,  
AcpiCheckAddressRange,  
allows drivers to check an address range against the ACPI namespace. See  
the  
ACPICA reference for additional details. Adds one new file,  
utilities/utaddress.c. Lin Ming, Bob Moore.

Fixed several issues with the ACPI 5.0 FADT support: Add the sleep  
Control  
and  
Status registers, update the ACPI 5.0 flags, and update internal data  
structures to handle an FADT larger than 256 bytes. The size of the ACPI  
5.0



FADT is 268 bytes.

Updated all ACPICA copyrights and signons to 2012. Added the 2012 copyright to all module headers and signons, including the standard Linux header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, and all ACPICA utilities.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The

debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 92.3K Code, 24.9K Data, 117.2K Total

Debug Version: 170.8K Code, 72.6K Data, 243.4K Total

Current Release:

Non-Debug Version: 92.8K Code, 24.9K Data, 117.7K Total

Debug Version: 171.7K Code, 72.9K Data, 244.5K Total

## 2) iASL Compiler/Disassembler and Tools:

Disassembler: fixed a problem with the automatic resource tag generation support. Fixes a problem where the resource tags are inadvertently not constructed if the table being disassembled contains external references to control methods. Moved the actual construction of the tags to after the final namespace is constructed (after 2nd parse is invoked due to external method references.) ACPICA BZ 941.

Table Compiler: Make all "generic" operators caseless. These are the operators like UINT8, String, etc. Making these caseless improves ease-of-use.

ACPICA BZ  
934.

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23 November 2011. Summary of changes for version 20111123:

## 0) ACPI 5.0 Support:



This release contains full support for the ACPI 5.0 specification, as summarized below.

#### Reduced Hardware Support:

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This support allows for ACPI systems without the usual ACPI hardware. This support is enabled by a flag in the revision 5 FADT. If it is set, ACPICA will not attempt to initialize or use any of the usual ACPI hardware. Note, when this flag is set, all of the following ACPI hardware is assumed to be not present and is not initialized or accessed:

- General Purpose Events (GPEs)
- Fixed Events (PM1a/PM1b and PM Control)
- Power Management Timer and Console Buttons (power/sleep)
- Real-time Clock Alarm
- Global Lock
- System Control Interrupt (SCI)
- The FACS is assumed to be non-existent

#### ACPI Tables:

-----

All new tables and updates to existing tables are fully supported in the ACPICA headers (for use by device drivers), the disassembler, and the iASL Data Table Compiler. ACPI 5.0 defines these new tables:

|      |                                                   |
|------|---------------------------------------------------|
| BGRT | /* Boot Graphics Resource Table */                |
| DRTM | /* Dynamic Root of Trust for Measurement table */ |
| FPDT | /* Firmware Performance Data Table */             |
| GTDT | /* Generic Timer Description Table */             |
| MPST | /* Memory Power State Table */                    |
| PCCT | /* Platform Communications Channel Table */       |
| PMTT | /* Platform Memory Topology Table */              |
| RASF | /* RAS Feature table */                           |

#### Operation Regions/SpaceIDs:

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All new operation regions are fully supported by the iASL compiler, the disassembler, and the ACPICA runtime code (for dispatch to region handlers.)



The new operation region Space IDs are:

GeneralPurposeIo  
GenericSerialBus

Resource Descriptors:

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All new ASL resource descriptors are fully supported by the iASL compiler, the ASL/AML disassembler, and the ACPICA runtime Resource Manager code (including all new predefined resource tags). New descriptors are:

FixedDma  
GpioIo  
GpioInt  
I2cSerialBus  
SpiSerialBus  
UartSerialBus

ASL/AML Operators, New and Modified:

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One new operator is added, the Connection operator, which is used to associate a GeneralPurposeIo or GenericSerialBus resource descriptor with individual field objects within an operation region. Several new protocols are associated with the AccessAs operator. All are fully supported by the iASL compiler, disassembler, and runtime ACPICA AML interpreter:

```
Connection          // Declare Field Connection
attributes
  AccessAs: AttribBytes (n)      // Read/Write N-Bytes Protocol
  AccessAs: AttribRawBytes (n)   // Raw Read/Write N-Bytes
Protocol
  AccessAs: AttribRawProcessBytes (n) // Raw Process Call Protocol
  RawDataBuffer                // Data type
for Vendor Data
fields
```

Predefined ASL/AML Objects:

-----



All new predefined objects/control-methods are supported by the iASL compiler and the ACPICA runtime validation/repair (arguments and return values.) New predefined names include the following:

Standard Predefined Names (Objects or Control Methods):

\_AEI, \_CLS, \_CPC, \_CWS, \_DEP,  
\_DLM, \_EVT, \_GCP, \_CRT, \_GWS,  
\_HRV, \_PRE, \_PSE, \_SRT, \_SUB.

Resource Tags (Names used to access individual fields within resource descriptors):

\_DBT, \_DPL, \_DRS, \_END, \_FLC,  
\_IOR, \_LIN, \_MOD, \_PAR, \_PHA,  
\_PIN, \_PPI, \_POL, \_RXL, \_SLV,  
\_SPE, \_STB, \_TXL, \_VEN.

ACPICA External Interfaces:

-----

Several new interfaces have been defined for use by ACPI-related device drivers and other host OS services:

AcpiAcquireMutex and AcpiReleaseMutex: These interfaces allow the host OS to acquire and release AML mutexes that are defined in the DSDT/SSDT tables provided by the BIOS.

They are intended to be used in conjunction with the ACPI 5.0 \_DLM (Device Lock Method) in order to provide transaction-level mutual exclusion with the AML code/interpreter.

AcpiGetEventResources: Returns the (formatted) resource descriptors as defined by the ACPI 5.0 \_AEI object (ACPI Event Information). This object provides resource descriptors associated with hardware-reduced platform events, similar to the AcpiGetCurrentResources interface.

Operation Region Handlers: For General Purpose IO and Generic Serial Bus operation regions, information about the Connection() object and any optional length information is passed to the region handler within the Context parameter.

AcpiBufferToResource: This interface converts a raw AML buffer containing



a

resource template or resource descriptor to the ACPI\_RESOURCE internal format suitable for use by device drivers. Can be used by an operation region handler to convert the Connection() buffer object into a ACPI\_RESOURCE.

Miscellaneous/Tools/TestSuites:

-----

Support for extended \_HID names (Four alpha characters instead of three).  
Support for ACPI 5.0 features in the AcpiExec and AcpiHelp utilities.  
Support for ACPI 5.0 features in the ASLTS test suite.  
Fully updated documentation (ACPICA and iASL reference documents.)

ACPI Table Definition Language:

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Support for this language was implemented and released as a subsystem of the iASL compiler in 2010. (See the iASL compiler User Guide.)

Non-ACPI 5.0 changes for this release:

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1) ACPICA Core Subsystem:

Fix a problem with operation region declarations where a failure can occur if the region name and an argument that evaluates to an object (such as the region address) are in different namespace scopes. Lin Ming, ACPICA BZ 937.

Do not abort an ACPI table load if an invalid space ID is found within. This will be caught later if the offending method is executed. ACPICA BZ 925.

Fixed an issue with the FFixedHW space ID where the ID was not always recognized properly (Both ACPICA and iASL). ACPICA BZ 926.

Fixed a problem with the 32-bit generation of the unix-specific OSL (osunixf.c). Lin Ming, ACPICA BZ 936.

Several changes made to enable generation with the GCC 4.6 compiler.



## ACPICA BZ

935.

New error messages: Unsupported I/O requests (not 8/16/32 bit), and Index/Bank field registers out-of-range.

### 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented the `__PATH__` operator, which returns the full pathname of the current source file.

AcpiHelp: Automatically display expanded keyword information for all ASL operators.

Debugger: Add "Template" command to disassemble/dump resource template buffers.

Added a new master script to generate and execute the ASLTS test suite. Automatically handles 32- and 64-bit generation. See tests/aslts.sh

iASL: Fix problem with listing generation during processing of the Switch()

operator where AML listing was disabled until the entire Switch block was completed.

iASL: Improve support for semicolon statement terminators. Fix "invalid character" message for some cases when the semicolon is used. Semicolons are now allowed after every <Term> grammar element. ACPICA BZ 927.

iASL: Fixed some possible aliasing warnings during generation. ACPICA BZ 923.

Disassembler: Fix problem with disassembly of the DataTableRegion operator where an inadvertent "Unhandled deferred opcode" message could be generated.

### 3) Example Code and Data Size

These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.



Previous Release:

Non-Debug Version: 90.2K Code, 23.9K Data, 114.1K Total

Debug Version: 165.6K Code, 68.4K Data, 234.0K Total

Current Release:

Non-Debug Version: 92.3K Code,

24.9K Data, 117.2K Total

Debug Version: 170.8K Code, 72.6K Data, 243.4K Total

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22 September 2011. Summary of changes for version 20110922:

0) ACPI 5.0 News:

Support for ACPI 5.0 in ACPICA has been underway for several months and will be released at the same time that ACPI 5.0 is officially released.

The ACPI 5.0 specification is on track for release in the next few months.

1) ACPICA Core Subsystem:

Fixed a problem where the maximum sleep time for the Sleep() operator was intended to be limited to two seconds, but was inadvertently limited to 20 seconds instead.

Linux and Unix makefiles: Added header file dependencies to ensure correct generation of ACPICA core code and utilities. Also simplified the makefiles considerably through the use of the vpath variable to specify search paths.  
ACPICA BZ 924.

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented support to check the access length for all fields created to access named Resource Descriptor fields. For example, if a resource field is defined to be two bits, a warning is issued if a CreateXxxxField() is used with an incorrect bit length. This is implemented for all current resource descriptor names. ACPICA BZ 930.



Disassembler: Fixed a byte ordering problem with the output of 24-bit and 56-bit integers.

iASL: Fixed a couple of issues associated with variable-length package objects. 1) properly handle constants like One, Ones, Zero -- do not make a VAR\_PACKAGE when these are used as a package length. 2) Allow the VAR\_PACKAGE opcode (in addition to PACKAGE) when validating object types for predefined names.

iASL: Emit statistics for all output files (instead of just the ASL input and AML output). Includes listings, hex files, etc.

iASL: Added -G option to the table compiler to allow the compilation of custom ACPI tables. The only part of a table that is required is the standard 36-byte ACPI header.

AcpiXtract:

Ported to the standard ACPICA environment (with ACPICA headers), which also adds correct 64-bit support. Also, now all output filenames are completely lower case.

AcpiExec: Ignore any non-AML tables (tables other than DSDT or SSDT) when loading table files. A warning is issued for any such tables. The only exception is an FADT. This also fixes a possible fault when attempting to load non-AML tables. ACPICA BZ 932.

AcpiHelp: Added the AccessAs and Offset operators. Fixed a problem where a missing table terminator could cause a fault when using the -p option.

AcpiSrc: Fixed a possible divide-by-zero fault when generating file statistics.

### 3) Example Code and Data Size

These are the sizes for the OS-independent acpica.lib produced by the



Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release (VC 9.0):

Non-Debug Version: 90.2K Code, 23.9K Data,  
114.1K Total

Debug Version: 165.6K Code, 68.4K Data, 234.0K Total

Current Release (VC 9.0):

Non-Debug Version: 90.2K Code, 23.9K Data, 114.1K Total

Debug Version: 165.6K Code, 68.4K Data, 234.0K Total

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23 June 2011. Summary of changes for version 20110623:

#### 1) ACPI CA Core Subsystem:

Updated the predefined name repair mechanism to not attempt repair of a \_TSS return object if a \_PSS object is present. We can only sort the \_TSS return package if there is no \_PSS within the same scope. This is because if \_PSS is present, the ACPI specification dictates that the \_TSS Power Dissipation field is to be ignored, and therefore some BIOSs leave garbage values in the \_TSS Power field(s). In this case, it is best to just return the \_TSS package as-is. Reported by, and fixed with assistance from Fenghua Yu.

Added an option to globally disable the control method return value validation and repair. This runtime option can be used to disable return value repair if this is causing a problem on a particular machine. Also added an option to AcpiExec (-dr) to set this disable flag.

All makefiles and project files: Major changes to improve generation of ACPICA

tools. ACPICA BZ 912:

Reduce default optimization levels to improve compatibility



For Linux, add strict-aliasing=0 for gcc 4  
Cleanup and simplify use of command line defines  
Cleanup multithread library support  
Improve usage messages

Linux-specific header: update handling of THREAD\_ID and pthread. For the 32-bit case, improve casting to eliminate possible warnings, especially with the acpica tools.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release (VC 9.0):

Non-Debug Version: 90.1K Code,  
23.9K Data, 114.0K Total

Debug Version: 165.6K Code, 68.4K Data, 234.0K Total

Current Release (VC 9.0):

Non-Debug Version: 90.2K Code, 23.9K Data, 114.1K Total

Debug Version: 165.6K Code, 68.4K Data, 234.0K Total

## 2) iASL Compiler/Disassembler and Tools:

With this release, a new utility named "acpihelp" has been added to the ACPICA package. This utility summarizes the ACPI specification chapters for the ASL and AML languages. It generates under Linux/Unix as well as Windows, and provides the following functionality:

Find/display ASL operator(s) -- with description and syntax.

Find/display ASL keyword(s) -- with exact spelling and descriptions.

Find/display ACPI predefined name(s) -- with description, number of arguments, and the return value data type.

Find/display AML opcode name(s) -- with opcode, arguments, and grammar.

Decode/display AML opcode -- with opcode name, arguments, and grammar.

Service Layers: Make multi-thread support configurable. Conditionally compile the multi-thread support so that threading libraries will not be linked if



not

necessary. The only tool that requires multi-thread support is AcpiExec.

iASL: Update yyerror/AslCompilerError for "const" errors. Newer versions of

Bison appear to want the interface to yyerror to be a const char \* (or at least this is a problem when generating iASL on some systems.) ACPICA BZ 923

Pierre Lejeune.

Tools: Fix for systems where O\_BINARY is not defined. Only used for Windows versions of the tools.

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27 May 2011. Summary of changes for version 20110527:

1) ACPI CA Core Subsystem:

ASL Load() operator: Reinstate most restrictions on the incoming ACPI table

signature. Now, only allow SSDT, OEMx, and a null signature. History:

- 1) Originally, we checked the table signature for "SSDT" or "PSDT". (PSDT is now obsolete.)
- 2) We added support for OEMx tables, signature "OEM" plus a fourth "don't care" character.
- 3) Valid tables were encountered with a null signature, so we just gave up on validating the signature, (05/2008).
- 4) We encountered non-AML tables such as the MADT, which caused interpreter errors and kernel faults. So now, we once again allow only SSDT, OEMx, and now, also a null signature. (05/2011).

Added the missing \_TDL predefined name to the global name list in order to enable validation. Affects both the core ACPICA code and the iASL compiler.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug

version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release (VC 9.0):

Non-Debug Version: 90.0K Code, 23.8K Data, 113.8K Total

Debug Version: 164.5K Code, 68.0K Data, 232.5K Total

Current Release (VC 9.0):



Non-Debug Version: 90.1K Code, 23.9K  
Data, 114.0K Total  
Debug Version: 165.6K Code, 68.4K Data, 234.0K Total

## 2) iASL Compiler/Disassembler and Tools:

Debugger/AcpiExec: Implemented support for "complex" method arguments on the debugger command line. This adds support beyond simple integers -- including Strings, Buffers, and Packages. Includes support for nested packages. Increased the default command line buffer size to accommodate these arguments. See the ACPICA reference for details and syntax. ACPICA BZ 917.

Debugger/AcpiExec: Implemented support for "default" method arguments for the Execute/Debug command. Now, the debugger will always invoke a control method with the required number of arguments -- even if the command line specifies none or insufficient arguments. It uses default integer values for any missing arguments. Also fixes a bug where only six method arguments maximum were supported instead of the required seven.

Debugger/AcpiExec: Add a maximum buffer length parameter to AcpiOsGetLine and also return status in order to prevent buffer overruns. See the ACPICA reference for details and syntax. ACPICA BZ 921

iASL: Cleaned up support for Berkeley yacc. A general cleanup of code and makefiles to simplify support for the two different but similar parser generators, bison and yacc.

Updated the generic unix makefile for gcc 4. The default gcc version is now expected to be 4 or greater, since options specific to gcc 4 are used.

-----  
13 April 2011. Summary of changes for version 20110413:

### 1) ACPI CA Core Subsystem:

Implemented support to execute a so-called "orphan" \_REG method under the EC device. This change will force the execution of a \_REG method underneath



the  
EC  
device even if there is no corresponding operation region of type  
EmbeddedControl. Fixes a problem seen on some machines and apparently is  
compatible with Windows behavior. ACPICA BZ 875.

Added more predefined methods that are eligible for automatic  
NULL  
package  
element removal. This change adds another group of predefined names to  
the  
list  
of names that can be repaired by having NULL package elements dynamically  
removed. This group are those methods that return a single variable-  
length  
package containing simple data types such as integers, buffers, strings.  
This  
includes: \_ALx, \_BCL, \_CID, \_DOD, \_EDL, \_FIX, \_PCL, \_PLD, \_PMD, \_PRx,  
\_PSL,  
\_Sx,  
and \_TZD. ACPICA BZ 914.

Split and segregated all internal global lock functions to a new file,  
evglock.c.

Updated internal address SpaceID for DataTable regions. Moved this  
internal  
space  
id in preparation for ACPI 5.0 changes that will include some new space  
IDs.  
This  
change should not affect user/host code.

Example Code and Data Size: These are the sizes for the OS-independent  
acpica.lib  
produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug  
version of  
the code includes the debug output trace mechanism and has a much larger  
code  
and  
data size.

Previous Release (VC 9.0):

Non-Debug Version: 89.8K Code, 23.8K Data, 113.6K Total

Debug Version: 164.2K Code, 67.9K Data, 232.1K Total

Current Release (VC 9.0):

Non-Debug Version: 90.0K Code, 23.8K Data, 113.8K Total

Debug Version: 164.5K Code, 68.0K Data, 232.5K Total



## 2) iASL Compiler/Disassembler and Tools:

iASL/DTC: Major update for new grammar features. Allow generic data types in custom ACPI tables. Field names are now optional. Any line can be split to multiple lines using the continuation char (\). Large buffers now use line-continuation character(s) and no colon on the continuation lines. See the grammar update in the iASL compiler reference. ACPI BZ 910,911. Lin Ming, Bob Moore.

iASL: Mark ASL "Return()" and the simple "Return" as "Null" return statements. Since the parser stuffs a "zero" as the return value for these statements (due to the underlying AML grammar), they were seen as "return with value" by the iASL semantic checking. They are now seen correctly as "null" return statements.

iASL: Check if a \_REG declaration has a corresponding Operation Region. Adds a check for each \_REG to ensure that there is in fact a corresponding operation region declaration in the same scope. If not, the \_REG method is not very useful since it probably won't be executed. ACPICA BZ 915.

iASL/DTC: Finish support for expression evaluation. Added a new expression parser that implements c-style operator precedence and parenthesization. ACPICA bugzilla 908.

Disassembler/DTC: Remove support for () and <> style comments in data tables. Now that DTC has full expression support, we don't want to have comment strings that start with a parentheses or a less-than symbol. Now, only the standard /\* and



//

comments are supported, as well as the bracket [] comments.

AcpiXtract: Fix for RSDP and dynamic SSDT extraction. These tables have "unusual"

headers in the acpidump file. Update the header validation to support

these

tables. Problem introduced in previous AcpiXtract version in the change

to

support "wrong checksum" error messages emitted by acpidump utility.

iasl: Add a \* option to generate all template files (as a synonym for ALL)

as

in

"iasl -T \*" or "iasl -T ALL".

iasl/DTC: Do not abort compiler on fatal errors. We do not want to completely

abort the compiler on "fatal" errors, simply should abort the current compile.

This allows multiple compiles with a single (possibly wildcard) compiler invocation.

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16 March 2011. Summary of changes for version 20110316:

#### 1) ACPI CA Core Subsystem:

Fixed a problem caused by a \_PRW method appearing at the namespace root scope

during the setup of wake GPEs. A fault could occur if a \_PRW directly under

the

root object was passed to the AcpiSetupGpeForWake interface. Lin Ming.

Implemented support for "spurious" Global Lock interrupts. On some systems, a

global lock interrupt can occur without the pending flag being set. Upon

a

GL

interrupt, we now ensure that a thread is actually waiting for the lock before

signaling GL availability. Rafael Wysocki, Bob Moore.

Example Code and Data Size: These are the sizes for the OS-independent



acpica.lib

produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release (VC 9.0):

Non-Debug Version: 89.7K Code, 23.7K Data, 113.4K Total

Debug Version: 163.9K Code, 67.5K Data, 231.4K Total

Current Release (VC 9.0):

Non-Debug Version: 89.8K Code, 23.8K Data, 113.6K Total

Debug Version: 164.2K Code, 67.9K Data, 232.1K Total

2) iASL Compiler/Disassembler and Tools:

Implemented full support for the "SLIC" ACPI table. Includes support in the header files, disassembler, table compiler, and template generator. Bob Moore,  
Lin Ming.

AcpiXtract: Correctly handle embedded comments and messages from AcpiDump.

Apparently some or all versions of acpidump will occasionally emit a comment

like

"Wrong checksum", etc., into the dump file. This was causing problems for AcpiXtract. ACPICA BZ 905.

iASL: Fix the Linux makefile by removing an inadvertent double file inclusion.

ACPICA BZ 913.

AcpiExec: Update installation of operation region handlers. Install one handler

for a user-defined address space. This is used by the ASL test suite (ASLTS).

-----  
11 February 2011. Summary of changes for version 20110211:

1) ACPI CA Core Subsystem:

Added a mechanism to defer \_REG methods for some early-installed handlers.



Most user handlers should be installed before call to AcpiEnableSubsystem. However, Event handlers and region handlers should be installed after AcpiInitializeObjects. Override handlers for the "default" regions should be installed early, however. This change executes all \_REG methods for the default regions (Memory/IO/PCI/DataTable) simultaneously to prevent any chicken/egg issues between them. ACPICA BZ 848.

Implemented an optimization for GPE detection. This optimization will simply ignore GPE registers that contain no enabled GPEs -- there is no need to read the register since this information is available internally. This becomes more important on machines with a large GPE space. ACPICA bugzilla 884. Lin Ming. Suggestion from Joe Liu.

Removed all use of the highly unreliable FADT revision field. The revision number in the FADT has been found to be completely unreliable and cannot be trusted. Only the actual table length can be used to infer the version. This change updates the ACPICA core and the disassembler so that both no longer even look at the FADT version and instead depend solely upon the FADT length.

Fix an unresolved name issue for the no-debug and no-error-message source generation cases. The \_AcpiModuleName was left undefined in these cases, but it is actually needed as a parameter to some interfaces. Define \_AcpiModuleName as a null string in these cases. ACPICA Bugzilla 888.

Split several large files (makefiles and project files updated)  
utglobal.c -> utdecode.c  
dbcomds.c -> dbmethod.c dbnames.c  
dsopcode.c -> dsargs.c dscontrol.c  
dsload.c -> dsload2.c  
aslanalyze.c -> aslbtypes.c aslwalks.c

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.



Previous Release (VC 9.0):

Non-Debug Version: 89.7K Code, 23.7K Data, 113.4K Total

Debug Version: 163.9K Code, 67.5K Data, 231.4K Total

Current Release (VC 9.0):

Non-Debug Version: 89.7K Code, 23.7K Data, 113.4K Total

Debug Version: 163.9K Code, 67.5K Data, 231.4K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented the

predefined macros `__LINE__`, `__FILE__`, and `__DATE__`.

These are useful C-style macros with the standard definitions. ACPICA bugzilla 898.

iASL/DTC: Added support for integer expressions and labels. Support for full

expressions for all integer fields in all ACPI tables. Support for labels in

"generic" portions of tables such as UEFI. See the iASL reference manual.

Debugger: Added a command to display the status of global handlers. The "handlers" command will display op region, fixed event, and miscellaneous global handlers. installation status -- and for op regions, whether default

or user-installed handler will be used.

iASL: Warn if reserved method incorrectly returns a value. Many predefined

names are defined such that they do not return a value. If implemented as a

method, issue a warning if such a name explicitly returns a value. ACPICA Bugzilla 855.

iASL: Added detection of GPE method name conflicts. Detects a conflict where

there are two GPE methods of the form

`_Lxy` and `_Exy` in the same scope.

(For

example, `_L1D` and `_E1D` in the same scope.) ACPICA bugzilla 848.

iASL/DTC: Fixed a couple input scanner issues with comments and line numbers. Comment remover could get confused and miss a comment ending.

Fixed

a problem with line counter maintenance.

iASL/DTC: Reduced the severity of some errors from fatal to error. There is



no need to abort on simple errors within a field definition.

Debugger: Simplified the output of the help command. All help output now in a single screen, instead of help subcommands. ACPICA Bugzilla 897.

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12 January 2011. Summary of changes for version 20110112:

1) ACPI CA Core Subsystem:

Fixed a race condition between method execution and namespace walks that can possibly cause a fault. The problem was apparently introduced in version 20100528 as a result of a performance optimization that reduces the number of namespace walks upon method exit by using the delete\_namespace\_subtree

function instead of the delete\_namespace\_by\_owner function used previously.

Bug is a missing namespace lock in the delete\_namespace\_subtree function. dana.myers@oracle.com

Fixed several issues and a possible fault with the automatic "serialized" method support. History: This support changes a method to "serialized" on the fly if the method generates an AE\_ALREADY\_EXISTS error, indicating the possibility that it cannot handle reentrancy. This fix repairs a couple of issues seen in the field, especially on machines with many cores:

- 1) Delete method children only upon the exit of the last thread, so as to not delete objects out from under other running threads (and possibly causing a fault.)
- 2) Set the "serialized" bit for the method only upon the exit of the Last thread, so as to not cause deadlock when running threads attempt to exit.
- 3) Cleanup the use of the AML "MethodFlags" and internal method flags so that there is no longer any confusion between the two.

Lin Ming, Bob Moore. Reported by dana.myers@oracle.com.

Debugger: Now lock the namespace for duration of a namespace dump. Prevents issues if the namespace is changing dynamically underneath the debugger. Especially affects temporary namespace nodes, since the debugger displays



these also.

Updated the ordering of include files. The ACPICA headers should appear before any compiler-specific headers (stdio.h, etc.) so that acenv.h can set any necessary compiler-specific defines, etc. Affects the ACPI-related tools and utilities.

Updated all ACPICA copyrights and signons to 2011. Added the 2011 copyright to all module headers and signons, including the Linux header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, and all utilities.

Added project files for MS Visual Studio 2008 (VC++ 9.0). The original project files for VC++ 6.0 are now obsolete. New project files can be found under acpica/generate/msvc9. See acpica/generate/msvc9/readme.txt for details.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release (VC 6.0):

Non-Debug Version: 89.8K Code, 18.9K Data, 108.7K Total

Debug Version: 166.6K Code, 52.1K Data, 218.7K Total

Current Release (VC 9.0):

Non-Debug Version: 89.7K Code, 23.7K Data, 113.4K Total

Debug Version: 163.9K Code, 67.5K Data, 231.4K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Added generic data types to the Data Table compiler. Add "generic" data types such as UINT32, String, Unicode, etc., to simplify the generation of platform-defined tables such as UEFI. Lin Ming.

iASL: Added listing support for the Data Table Compiler. Adds listing support (-l) to display actual binary output for



each line of input code.

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09 December 2010. Summary of changes for version 20101209:

1) ACPI CA Core Subsystem:

Completed the major overhaul of the GPE support code that was begun in July

2010. Major features include: removal of \_PRW execution in ACPICA (host executes \_PRWs anyway), cleanup of "wake" GPE interfaces and processing, changes to existing interfaces, simplification of GPE handler operation, and

a handful of new interfaces:

AcpiUpdateAllGpes

AcpiFinishGpe

AcpiSetupGpeForWake

AcpiSetGpeWakeMask

One new file, evxfgpe.c to consolidate all external GPE interfaces.

See the ACPICA Programmer Reference for full details and programming information. See the new section 4.4 "General Purpose Event (GPE) Support"

for a full overview, and section 8.7 "ACPI General Purpose Event Management"

for programming details. ACPICA BZ 858,870,877. Matthew Garrett, Lin Ming,

Bob Moore, Rafael Wysocki.

Implemented a new

GPE feature for Windows compatibility, the "Implicit Wake

GPE Notify". This feature will automatically issue a Notify(2) on a device

when a Wake GPE is received if there is no corresponding GPE method or handler. ACPICA BZ 870.

Fixed a problem with the Scope() operator during table parse and load phase.

During load phase (table load or method execution), the scope operator should

not enter the target into the namespace. Instead, it should open a new scope

at the target location. Linux BZ 19462, ACPICA BZ 882.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The



debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 89.8K Code, 18.9K Data, 108.7K Total

Debug Version: 166.6K Code, 52.1K Data, 218.7K Total

Current Release:

Non-Debug Version: 89.9K Code, 19.0K Data, 108.9K

Total

Debug Version: 166.3K Code, 52.1K Data, 218.4K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Relax the alphanumeric restriction on \_CID strings. These strings are

"bus-specific" per the ACPI specification, and therefore any characters are

acceptable. The only checks that can be performed are for a null string and

perhaps for a leading asterisk. ACPICA BZ 886.

iASL: Fixed a problem where a syntax error that caused a premature EOF condition on the source file emitted a very confusing error message. The premature EOF is now detected correctly. ACPICA BZ 891.

Disassembler: Decode the AccessSize within a Generic Address Structure (byte

access, word access, etc.) Note, this field does not allow arbitrary bit access, the size is encoded as 1=byte, 2=word, 3=dword, and 4=qword.

New: AcpiNames utility - Example namespace dump utility. Shows an example of

ACPICA configuration for a minimal namespace dump utility. Uses table and namespace managers, but

no AML interpreter. Does not add any functionality

over AcpiExec, it is a subset of AcpiExec. The purpose is to show how to partition and configure ACPICA. ACPICA BZ 883.

AML Debugger: Increased the debugger buffer size for method return objects.

Was 4K, increased to 16K. Also enhanced error messages for debugger method

execution, including the buffer overflow case.

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13 October 2010. Summary of changes for version 20101013:



## 1) ACPI CA Core Subsystem:

Added support to clear the PCIEXP\_WAKE event. When clearing ACPI events, now

clear the PCIEXP\_WAKE\_STS bit in the ACPI PM1 Status Register, via HwClearAcpiStatus. Original change from Colin King. ACPICA BZ 880.

Changed the type of the predefined namespace object \_TZ from ThermalZone to

Device. This was found to be confusing to the host software that processes

the various thermal zones, since \_TZ is not really a ThermalZone.

However,

a

Notify() can still be performed on it. ACPICA

BZ 876. Suggestion from Rui

Zhang.

Added Windows Vista SP2 to the list of supported \_OSI strings. The actual string is "Windows 2006 SP2".

Eliminated duplicate code in AcpiUtExecute\* functions. Now that the nsrepair

code automatically repairs \_HID-related strings, this type of code is no

longer needed in Execute\_HID, Execute\_CID, and Execute\_UID. ACPICA BZ 878.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a

much larger code and data size.

### Previous Release:

Non-Debug Version: 89.9K Code, 19.0K Data, 108.9K Total

Debug Version: 166.3K Code, 52.1K Data, 218.4K Total

### Current Release:

Non-Debug Version: 89.9K Code, 19.0K Data, 108.9K Total

Debug Version: 166.3K Code, 52.1K Data, 218.4K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented additional compile-time validation for \_HID strings.

The

non-hex prefix (such as "PNP" or "ACPI") must be uppercase, and the length



of  
the string must be exactly seven or eight characters. For both `_HID` and `_CID`  
strings, all characters must be alphanumeric. ACPICA BZ 874.

iASL: Allow certain "null" resource descriptors. Some BIOS code creates  
descriptors that are mostly or all zeros, with the expectation that they  
will  
be filled in at runtime. iASL now allows this as long as there is a  
"resource  
tag" (name) associated with the descriptor, which gives the ASL a handle  
needed to modify the descriptor. ACPICA BZ 873.

Added single-thread support to the generic Unix application OSL.  
Primarily  
for iASL support, this change removes the use of semaphores in the  
single-  
threaded ACPICA tools/applications - increasing performance. The  
`_MULTI_THREADED` option was replaced by the (reverse) `ACPI_SINGLE_THREADED`  
option. ACPICA BZ 879.

AcpiExec: several fixes for the 64-bit version. Adds XSDT support and  
support  
for 64-bit DSDT/FACS addresses in the FADT. Lin Ming.

iASL: Moved all compiler messages to a new file, `aslmessages.h`.

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15 September 2010. Summary of changes for version 20100915:

#### 1) ACPI CA Core Subsystem:

Removed the `AcpiOsDerivePciId` OSL interface. The various host  
implementations  
of this function were not OS-dependent and are now obsolete and can be  
removed from all host OSLs. This function has been replaced by  
`AcpiHwDerivePciId`, which is now part of the ACPICA core code.  
`AcpiHwDerivePciId` has been implemented without recursion. Adds one new  
module, `hwpci.c`. ACPICA BZ 857.

Implemented a dynamic repair for `_HID` and `_CID` strings. The following  
problems are now repaired at runtime: 1) Remove a leading asterisk in the  
string, and 2) the entire string is uppercased. Both repairs are in  
accordance with the ACPI specification and will simplify host driver  
code.  
ACPICA BZ 871.



The ACPI\_THREAD\_ID type is no longer configurable, internally it is now always UINT64. This simplifies the ACPICA code, especially any printf output.

UINT64 is the only common data type for all thread\_id types across all operating systems. It is now up to the host OSL to cast the native thread\_id type to UINT64 before returning the value to ACPICA (via AcpiOsGetThreadId).

Lin Ming, Bob Moore.

Added the ACPI\_INLINE type to enhance the ACPICA configuration. The "inline" keyword is not standard across compilers, and this type allows inline to be configured on a per-compiler basis. Lin Ming.

Made the system global AcpiGbl\_SystemAwakeAndRunning publicly available.

Added an extern for this boolean in acpixf.h. Some hosts utilize this value during suspend/restore operations. ACPICA BZ 869.

All code that implements error/warning messages with the "ACPI:" prefix has been moved to a new module, utxferror.c.

The UINT64\_OVERLAY was moved to utmath.c, which is the only module where it is used. ACPICA BZ 829. Lin Ming, Bob Moore.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

#### Previous Release:

Non-Debug Version: 89.1K Code, 19.0K Data, 108.1K Total

Debug Version: 165.1K Code, 51.9K Data, 217.0K Total

#### Current Release:

Non-Debug Version: 89.9K Code, 19.0K Data, 108.9K Total

Debug Version: 166.3K Code, 52.1K Data, 218.4K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Write ACPI errors to stderr instead of the output



file.

This keeps the output files free of random error messages that may originate from within the namespace/interpreter code. Used this opportunity to merge all ACPI:-style messages into a single new module, utxferror.c. ACPICA BZ 866. Lin Ming, Bob Moore.

Tools: update some printf's for ansi warnings on size\_t. Handle width

change of size\_t on 32-bit versus 64-bit generations. Lin Ming.

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06 August 2010. Summary of changes for version 20100806:

#### 1) ACPI CA Core Subsystem:

Designed and implemented a new host interface to the \_OSI support code.

This

will allow the host to dynamically add or remove multiple \_OSI strings, as

well as install an optional handler that is called for each \_OSI invocation.

Also added a new AML debugger command, 'osi' to display and modify the global

\_OSI string table, and test support in the AcpiExec utility. See the ACPICA

reference manual for full details. Lin Ming, Bob Moore. ACPICA BZ 836.

New Functions:

AcpiInstallInterface - Add an \_OSI string.

AcpiRemoveInterface - Delete an \_OSI string.

AcpiInstallInterfaceHandler - Install optional \_OSI handler.

Obsolete Functions:

AcpiOsValidateInterface - no longer used.

New Files:

source/components/utilities/utosi.c

Re-introduced the support to enable multi-byte transfers for Embedded

Controller (EC) operation regions. A reported problem was found to be a bug

in the host OS, not in the multi-byte support. Previously, the maximum data

size passed to the EC operation region handler was a single byte. There are

often EC Fields larger than one byte that need to be transferred, and it is



useful for the EC driver to lock these as a single transaction. This change enables single transfers larger than 8 bits. This effectively changes the access to the EC space from ByteAcc to AnyAcc, and will probably require changes to the host OS Embedded Controller driver to enable 16/32/64/256-bit transfers in addition to 8-bit transfers. Alexey Starikovskiy, Lin Ming.

Fixed a problem with the prototype for AcpiOsReadPciConfiguration. The prototype in apiosxf.h had the output value pointer as a (void \*). It should be a (UINT64 \*). This may affect some host OSL code.

Fixed a couple problems with the recently modified Linux makefiles for iASL and AcpiExec. These new makefiles place the generated object files in the local directory so that there can be no collisions between the files that are shared between them that are compiled with different options.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 88.3K Code, 18.8K Data, 107.1K Total

Debug Version: 164.0K Code, 51.5K Data, 215.5K Total

Current Release:

Non-Debug Version: 89.1K Code, 19.0K Data, 108.1K Total

Debug Version: 165.1K Code, 51.9K Data, 217.0K Total

2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Added a new option (-da, "disassemble all") to load the namespace from and disassemble an entire group of AML files. Useful for loading all of the AML tables for a given machine (DSDT, SSDT1...SSDTn) and disassembling with one simple command. ACPICA BZ 865. Lin Ming.

iASL: Allow multiple invocations of -e option. This change allows multiple uses of -e on the command line: "-e ssdt1.dat -e ssdt2.dat". ACPICA BZ 834. Lin Ming.



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02 July 2010. Summary of changes for version 20100702:

1) ACPI CA Core Subsystem:

Implemented several updates to the recently added GPE reference count support. The model for "wake" GPEs is changing to give the host OS complete control of these GPEs. Eventually, the ACPICA core will not execute any `_PRW` methods, since the host already must execute them. Also, additional changes were made to help ensure that the reference counts are kept in proper synchronization with reality. Rafael J. Wysocki.

- 1) Ensure that GPEs are not enabled twice during initialization.
- 2) Ensure that GPE enable masks stay in sync with the reference count.
- 3) Do not inadvertently enable GPEs when writing GPE registers.
- 4) Remove the internal wake reference counter and add new `AcpiGpeWakeup` interface. This interface will set or clear individual GPEs for wakeup.
- 5) Remove `GpeType` argument from `AcpiEnable` and `AcpiDisable`. These interfaces are now used for "runtime" GPEs only.

Changed the behavior of the GPE install/remove handler interfaces. The GPE is no longer disabled during this process, as it was found to cause problems on some machines. Rafael J. Wysocki.

Reverted a change introduced in version 20100528 to enable Embedded Controller multi-byte transfers. This change was found to cause problems with Index Fields and possibly Bank Fields. It will be reintroduced when these problems have been resolved.

Fixed a problem with references to Alias objects within Package Objects. A reference to an Alias within the definition of a Package was not always resolved properly. Aliases to objects like Processors, Thermal zones, etc. were resolved to the actual object instead of a reference to the object as it



should be. Package objects are only allowed to contain integer, string, buffer, package, and reference objects. Redhat bugzilla 608648.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 88.3K Code, 18.8K Data, 107.1K Total

Debug Version: 164.1K Code, 51.5K Data, 215.6K Total

Current Release:

Non-Debug Version: 88.3K Code, 18.8K Data, 107.1K Total

Debug Version: 164.0K Code, 51.5K Data, 215.5K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented a new compiler subsystem to allow definition and compilation of the non-AML ACPI tables such as FADT, MADT, SRAT, etc. These are called "ACPI Data Tables", and the new compiler is the "Data Table Compiler". This compiler is intended to simplify the existing error-prone process of creating these tables for the BIOS, as well as allowing the disassembly, modification, recompilation, and override of existing ACPI data tables. See the iASL User Guide for detailed information.

iASL: Implemented a new Template Generator option in support of the new Data Table Compiler. This option will create examples of all known ACPI tables that can be used as the basis for table development. See the iASL documentation and the -T option.

Disassembler and headers: Added support for the WDDT ACPI table (Watchdog Descriptor Table).

Updated the Linux makefiles for iASL and AcpiExec to place the generated object files in the local directory so that there can be no collisions between the shared files between them that are generated with different options.

Added support for Mac OS X in the Unix OSL used for iASL and AcpiExec. Use the #define \_\_APPLE\_\_ to enable this support.

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May 2010. Summary of changes for version 20100528:

Note: The ACPI 4.0a specification was released on April 5, 2010 and is available at [www.acpi.info](http://www.acpi.info). This is primarily an errata release.

#### 1) ACPI CA Core Subsystem:

Undefined ACPI tables: We are looking for the definitions for the following

ACPI tables that have been seen in the field: ATKG, IEIT, GSCI.

Implemented support to enable multi-byte transfers for Embedded Controller (EC) operation regions. Previously, the maximum data size passed to the EC operation region handler was a single byte. There are often EC Fields larger than one byte that need to be transferred, and it is useful for the EC driver to lock these as a single transaction. This change enables single transfers larger than 8 bits. This effectively changes the access to the EC space from ByteAcc to AnyAcc, and will probably require changes to the host OS Embedded Controller driver to enable 16/32/64/256-bit transfers in addition to 8-bit transfers.

Alexey Starikovskiy, Lin Ming

Implemented a performance enhancement for namespace search and access. This change enhances the performance of namespace searches and walks by adding a backpointer to the parent in each namespace node. On large namespaces, this change can improve overall ACPI performance by up to 9X. Adding a pointer to each namespace node increases the overall size of the internal namespace by about 5%, since each namespace entry usually consists of both a namespace node and an ACPI operand object. However, this is the first growth of the namespace in ten years. ACPICA bugzilla 817. Alexey Starikovskiy.

Implemented a performance optimization that reduces the number of namespace walks. On control method exit, only walk the namespace if the method is



known  
to have created namespace objects outside of its local scope. Previously,  
the  
entire namespace was traversed on each control method exit. This change  
can  
improve overall ACPI performance by up to  
3X. Alexey Starikovskiy, Bob  
Moore.

Added support to truncate I/O addresses to 16 bits for Windows  
compatibility.  
Some ASL code has been seen in the field that inadvertently has bits set  
above bit 15. This feature is optional and is enabled if the BIOS  
requests  
any Windows OSI strings. It can also be enabled by the host OS. Matthew  
Garrett, Bob Moore.

Added support to limit the maximum time for the ASL Sleep() operator. To  
prevent accidental deep sleeps, limit the maximum time that Sleep() will  
actually sleep. Configurable, the default maximum is two seconds. ACPICA  
bugzilla 854.

Added run-time validation support for the \_WDG and \_WED Microsoft  
predefined  
methods. These objects are defined by "Windows Instrumentation", and are  
not  
part of the ACPI spec. ACPICA BZ 860.

Expanded all statistic counters used during namespace and device  
initialization from 16 to 32 bits in order to support very large  
namespaces.

Replaced all instances of %d in printf format specifiers with  
%u since  
nearly  
all integers in ACPICA are unsigned.

Fixed the exception namestring for AE\_WAKE\_ONLY\_GPE. Was incorrectly  
returned  
as AE\_NO\_HANDLER.

Example Code and Data Size: These are the sizes for the OS-independent  
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The  
debug version of the code includes the debug output trace mechanism and  
has a  
much larger code and data size.

Previous Release:



Non-Debug Version: 88.4K Code, 18.8K Data, 107.2K Total  
Debug Version: 164.2K Code, 51.5K Data, 215.7K Total  
Current Release:  
Non-Debug Version: 88.3K Code, 18.8K Data, 107.1K Total  
Debug Version: 164.1K Code, 51.5K Data, 215.6K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Added compiler support for the \_WDG and \_WED Microsoft predefined methods. These objects are defined by "Windows Instrumentation", and are not part of the ACPI spec. ACPICA BZ 860.

AcpiExec: added option to disable the memory tracking mechanism. The -dt option will disable the tracking mechanism, which improves performance considerably.

AcpiExec: Restructured the command line options into -d (disable) and -e (enable) options.

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28 April 2010. Summary of changes for version 20100428:

### 1) ACPI CA Core Subsystem:

Implemented GPE support for dynamically loaded ACPI tables. For all GPEs, including FADT-based and GPE Block Devices, execute any \_PRW methods in the new table, and process any \_Lxx/\_Exx GPE methods in the new table. Any runtime GPE that is referenced by an \_Lxx/\_Exx method in the new table is immediately enabled. Handles the FADT-defined GPEs as well as GPE Block Devices. Provides compatibility with other ACPI implementations. Two new files added, evgpeinit.c and evgpeutil.c. ACPICA BZ 833. Lin Ming, Bob Moore.

Fixed a regression introduced in version 20100331 within the table manager where initial table loading could fail. This was introduced in the fix for AcpiReallocateRootTable. Also, renamed some of fields in the table manager data structures to clarify their meaning and use.

Fixed a possible allocation overrun during internal object copy in AcpiUtCopySimpleObject. The original code did not correctly handle the case



where the object to be copied was a namespace node. Lin Ming. ACPICA BZ 847.

Updated the allocation dump routine, AcpiUtDumpAllocation and fixed a possible access beyond end-of-allocation. Also, now fully validate descriptor (size and type) before output. Lin Ming, Bob Moore. ACPICA BZ 847

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 87.9K Code, 18.6K Data, 106.5K Total

Debug Version: 163.5K Code, 51.3K Data, 214.8K Total

Current Release:

Non-Debug Version:

88.4K Code, 18.8K Data, 107.2K Total

Debug Version: 164.2K Code, 51.5K Data, 215.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented Min/Max/Len/Gran validation for address resource descriptors. This change implements validation for the address fields that are common to all address-type resource descriptors. These checks are implemented: Checks for valid Min/Max, length within the Min/Max window, valid granularity, Min/Max a multiple of granularity, and \_MIF/\_MAF as per table 6-40 in the ACPI 4.0a specification. Also split the large aslrestype1.c and aslrestype2.c files into five new files. ACPICA BZ 840.

iASL: Added support for the \_Wxx predefined names. This support was missing and these names were not recognized by the compiler as valid predefined names. ACPICA BZ 851.

iASL: Added an error for all predefined names that are defined to return no value and thus must be implemented as Control Methods. These include all of the \_Lxx, \_Exx, \_Wxx, and \_Qxx names, as well as some other miscellaneous names such as \_DIS, \_INI, \_IRC, \_OFF, \_ON, and \_PSx. ACPICA BZ 850, 856.



iASL: Implemented the -ts option to emit hex AML data in ASL format, as an ASL Buffer. Allows ACPI tables to be easily included within ASL files, to be dynamically loaded via the Load() operator. Also cleaned up output for the -ta and -tc options. ACPICA BZ 853.

Tests: Added a new file with examples of extended iASL error checking. Demonstrates the advanced error checking ability of the iASL compiler. Available at tests/misc/badcode.asl.

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31 March 2010. Summary of changes for version 20100331:

1) ACPI CA Core Subsystem:

Completed a major update for the GPE support in order to improve support for shared GPEs and to simplify both host OS and ACPICA code. Added a reference count mechanism to support shared GPEs that require multiple device drivers.

Several external interfaces have changed. One external interface has been removed. One new external interface was added. Most of the GPE external interfaces now use the GPE spinlock instead of the events mutex (and the Flags parameter for many GPE interfaces has been removed.) See the updated ACPICA Programmer Reference for details. Matthew Garrett, Bob Moore, Rafael Wysocki. ACPICA BZ 831.

Changed:

AcpiEnableGpe, AcpiDisableGpe, AcpiClearGpe, AcpiGetGpeStatus

Removed:

AcpiSetGpeType

New:

AcpiSetGpe

Implemented write support for DataTable operation regions. These regions are defined via the DataTableRegion() operator. Previously, only read support was implemented. The ACPI specification allows DataTableRegions to be read/write, however.



Implemented a new subsystem option to force a copy of the DSDT to local memory. Optionally copy the entire DSDT to local memory (instead of simply mapping it.) There are some (albeit very rare) BIOSs that corrupt or replace the original DSDT, creating the need for this option. Default is FALSE, do not copy the DSDT.

Implemented detection of a corrupted or replaced DSDT. This change adds support to detect a DSDT that has been corrupted and/or replaced from outside the OS (by firmware). This is typically catastrophic for the system, but has been seen on some machines. Once this problem has been detected, the DSDT copy option can be enabled via system configuration. Lin Ming, Bob Moore.

Fixed two problems with AcpiReallocateRootTable during the root table copy.

When copying the root table to the new allocation, the length used was incorrect. The new size was used instead of the current table size, meaning too much data was copied. Also, the count of available slots for ACPI tables was not set correctly. Alexey Starikovskiy, Bob Moore.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 87.5K Code, 18.4K Data, 105.9K Total

Debug Version: 163.4K Code, 51.1K Data, 214.5K Total

Current Release:

Non-Debug Version: 87.9K Code, 18.6K Data, 106.5K Total

Debug Version: 163.5K Code, 51.3K Data, 214.8K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implement limited typechecking for values returned from predefined control methods. The type of any returned static (unnamed) object is now validated. For example, Return(1). ACPICA BZ 786.



iASL: Fixed a predefined name object verification regression. Fixes a problem introduced in version 20100304. An error is incorrectly generated if a predefined name is declared as a static named object with a value defined using the keywords "Zero", "One", or "Ones". Lin Ming.

iASL: Added Windows 7 support for the -g option (get local ACPI tables) by reducing the requested registry access rights. ACPICA BZ 842.

Disassembler:

fixed a possible fault when generating External() statements.

Introduced in commit ae7d6fd: Properly handle externals with parent-prefix (carat). Fixes a string length allocation calculation. Lin Ming.

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04 March 2010. Summary of changes for version 20100304:

#### 1) ACPI CA Core Subsystem:

Fixed a possible problem with the AML Mutex handling function AcpiExReleaseMutex where the function could fault under the very rare condition when the interpreter has blocked, the interpreter lock is released, the interpreter is then reentered via the same thread, and attempts to acquire an AML mutex that was previously acquired. FreeBSD report 140979. Lin Ming.

Implemented additional configuration support for the AML "Debug Object". Output from the debug object can now be enabled via a global variable, AcpiGbl\_EnableAmlDebugObject. This will assist with remote machine debugging.

This debug output is now available in the release version of ACPICA instead of just the debug version. Also, the entire debug output module can now be configured out of the ACPICA build if desired. One new file added, executer/exdebug.c. Lin Ming, Bob Moore.

Added header support for the ACPI MCHI table (Management Controller Host Interface Table). This table was added in ACPI 4.0, but the defining document has only recently become available.



Standardized output of integer values for ACPICA warnings/errors. Always use

0x prefix for hex output, always use %u for unsigned integer decimal output.

Affects ACPI\_INFO, ACPI\_ERROR, ACPI\_EXCEPTION, and ACPI\_WARNING (about 400

invocations.) These invocations were converted from the original ACPI\_DEBUG\_PRINT invocations and were not consistent. ACPICA BZ 835.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has

a much larger code and data size.

#### Previous Release:

Non-Debug Version: 87.1K Code, 18.0K Data, 105.1K Total

Debug Version: 163.5K Code, 50.9K Data, 214.4K Total

#### Current Release:

Non-Debug Version: 87.5K Code, 18.4K Data, 105.9K Total

Debug Version: 163.4K Code, 51.1K Data, 214.5K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented typechecking support for static (non-control method) predefined named objects that are declared with the Name() operator. For example, the type of this object is now validated to be of type Integer: Name(\_BBN, 1). This change migrates the compiler to using the core predefined name table instead of maintaining a local version. Added a new file, aslpredef.c. ACPICA BZ 832.

Disassembler: Added support for the ACPI 4.0 MCHI table.

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21 January 2010. Summary of changes for version 20100121:

### 1) ACPI CA Core Subsystem:

Added the 2010 copyright to all module headers and signons.

This affects virtually every file in the ACPICA core subsystem, the iASL compiler, the tools/utilities, and the test suites.

Implemented a change to the AcpiGetDevices interface to eliminate unnecessary invocations of the \_STA method. In the case where a specific \_HID is



requested, do not run \_STA until a \_HID match is found. This eliminates potentially dozens of \_STA calls during a search for a particular device/HID, which in turn can improve boot times. ACPICA BZ 828. Lin Ming.

Implemented an additional repair for predefined method return values. Attempt to repair unexpected NULL elements within returned Package objects. Create an Integer of value zero, a NULL String, or a zero-length Buffer as appropriate. ACPICA BZ 818. Lin Ming, Bob Moore.

Removed the obsolete ACPI\_INTEGER data type. This type was introduced as the code was migrated from ACPI 1.0 (with 32-bit AML integers) to ACPI 2.0 (with 64-bit AML integers). It is now obsolete and this change removes it from the ACPICA code base, replaced by UINT64. The original typedef has been retained for now for compatibility with existing device driver code. ACPICA BZ 824.

Removed the unused UINT32\_STRUCT type, and the obsolete Integer64 field in the parse tree object.

Added additional warning options for the gcc-4 generation. Updated the source accordingly. This includes some code restructuring to eliminate unreachable code, elimination of some gotos, elimination of unused return values, some additional casting, and removal of redundant declarations.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 87.0K Code, 18.0K Data, 105.0K Total

Debug Version: 163.4K Code, 50.8K Data, 214.2K Total

Current Release:



Non-Debug

Version: 87.1K Code, 18.0K Data, 105.1K Total

Debug Version: 163.5K Code, 50.9K Data, 214.4K Total

## 2) iASL Compiler/Disassembler and Tools:

No functional changes for this release.

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14 December 2009. Summary of changes for version 20091214:

### 1) ACPI CA Core Subsystem:

Enhanced automatic data type conversions for predefined name repairs.

This

change expands the automatic repairs/conversions for predefined name  
return

values to make Integers, Strings, and Buffers fully interchangeable.

Also,

a

Buffer can be converted to a Package of Integers if necessary. The  
nsrepair.c

module was completely restructured. Lin Ming, Bob Moore.

Implemented automatic removal of null package elements during predefined  
name

repairs. This change will automatically remove embedded and trailing NULL  
package elements from returned package objects that are defined to  
contain

a

variable number of sub-packages. The driver is then presented with

a

package

with no null elements to deal with. ACPICA BZ 819.

Implemented a repair for the predefined \_FDE and \_GTM names. The expected  
return value for both names is a Buffer of 5 DWORDs. This repair fixes  
two

possible problems (both seen in the field), where a package of integers  
is

returned, or a buffer of BYTES is returned. With assistance from Jung-uk  
Kim.

Implemented additional module-level code support. This change will  
properly

execute module-level code that is not at the root of the namespace (under  
a

Device object, etc.). Now executes the code within the current scope



instead  
of the root. ACPICA BZ 762. Lin Ming.

Fixed possible mutex acquisition errors when running \_REG methods. Fixes a problem where mutex errors can occur when running a \_REG method that is in the same scope as a method-defined operation region or an operation region under a module-level IF block. This type of code is rare, so the problem has not been seen before. ACPICA BZ 826. Lin Ming, Bob Moore.

Fixed a possible memory leak during module-level code execution. An object could be leaked for each block of executed module-level code if the interpreter slack mode is enabled This change deletes any implicitly returned object from the module-level code block. Lin Ming.

Removed messages for successful predefined repair(s). The repair mechanism was considered too wordy. Now, messages are only unconditionally emitted if the return object cannot be repaired. Existing messages for successful repairs were converted to ACPI\_DEBUG\_PRINT messages for now. ACPICA BZ 827.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 86.6K Code, 18.2K Data, 104.8K Total

Debug Version: 162.7K Code, 50.8K Data, 213.5K Total

Current Release:

Non-Debug Version: 87.0K Code, 18.0K Data, 105.0K Total

Debug Version: 163.4K Code, 50.8K Data, 214.2K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a regression introduced in 20091112 where intermediate .SRC files were no longer automatically removed at the termination of the compile.



acpiexec: Implemented the -f option to specify default region fill value. This option specifies the value used to initialize buffers that simulate operation regions. Default value is zero. Useful for debugging problems that depend on a specific initial value for a region or field.

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12 November 2009. Summary of changes for version 20091112:

1) ACPI CA Core Subsystem:

Implemented a post-order callback to AcpiWalkNamespace. The existing interface only has a pre-order callback. This change adds an additional parameter for a post-order callback which will be more useful for bus scans.

ACPICA BZ 779. Lin Ming.

Updated the ACPICA Programmer Reference.

Modified the behavior of the operation region memory mapping cache for SystemMemory. Ensure that the memory mappings created for operation regions do not cross 4K page boundaries. Crossing a page boundary while mapping regions can cause kernel warnings on some hosts if the pages have different attributes. Such regions are probably BIOS bugs, and this is the workaround.  
Linux BZ 14445. Lin Ming.

Implemented an automatic repair for predefined methods that must return sorted lists. This change will repair (by sorting) packages returned by \_ALR, \_PSS, and \_TSS. Drivers can now assume that the packages are correctly sorted and do not contain NULL package elements. Adds one new file, namespace/nsrepair2.c. ACPICA BZ 784. Lin Ming, Bob Moore.

Fixed a possible fault during predefined name validation if a return Package object contains NULL elements. Also adds a warning if a NULL element is followed by any non-null elements. ACPICA BZ 813, 814. Future enhancement may include repair or removal of all such NULL elements where possible.

Implemented additional module-level executable AML code support. This change will execute module-level code that is not at the root of the namespace (under a Device object, etc.) at table load time. Module-level executable



## AML

code has been illegal since ACPI 2.0. ACPICA BZ 762. Lin Ming.

Implemented a new internal function to create Integer objects. This function

simplifies miscellaneous object creation code. ACPICA BZ 823.

Reduced the severity of predefined repair messages, Warning to Info.

Since

the object was successfully repaired, a warning is too severe. Reduced to an

info message for now. These messages may eventually be changed to debug-only.

ACPICA BZ 812.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and

has a

much larger code and data size.

### Previous Release:

Non-Debug Version: 85.8K Code, 18.0K Data, 103.8K Total

Debug Version: 161.8K Code, 50.6K Data, 212.4K Total

### Current Release:

Non-Debug Version: 86.6K Code, 18.2K Data, 104.8K Total

Debug Version: 162.7K Code, 50.8K Data, 213.5K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Implemented Switch() with While(1) so that Break works correctly.

This

change correctly implements the Switch operator with a surrounding

While(1)

so that the Break operator works as expected. ACPICA BZ 461. Lin Ming.

iASL: Added a message if a package initializer list is shorter than package

length. Adds a new remark for a Package() declaration if an initializer list

exists, but is shorter than the declared length of the package. Although technically legal, this is probably a coding error and it is seen in the field. ACPICA BZ 815. Lin Ming, Bob Moore.

iASL: Fixed a problem where the compiler could

fault after the maximum

number



of errors was reached (200).

acpixtract: Fixed a possible warning for pointer cast if the compiler warning level set very high.

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13 October 2009. Summary of changes for version 20091013:

1) ACPI CA Core Subsystem:

Fixed a problem where an Operation Region \_REG method could be executed more than once. If a custom address space handler is installed by the host before the "initialize operation regions" phase of the ACPICA initialization, any \_REG methods for that address space could be executed twice. This change fixes the problem. ACPICA BZ 427. Lin Ming.

Fixed a possible memory leak for the Scope() ASL operator. When the exact invocation of "Scope()" is executed (change scope to root), one internal operand object was leaked. Lin Ming.

Implemented a run-time repair for the \_MAT predefined method. If the \_MAT return value is defined as a Field object in the AML, and the field size is less than or equal to the default width of an integer (32 or 64), \_MAT can incorrectly return an Integer instead of a Buffer. ACPICA now automatically repairs this problem. ACPICA BZ 810.

Implemented a run-time repair for the \_BIF and \_BIX predefined methods. The "OEM Information" field is often incorrectly returned as an Integer with value zero if the field is not supported by the platform. This is due to an ambiguity in the ACPI specification. The field should always be a string. ACPICA now automatically repairs this problem by returning a NULL string within the returned Package. ACPICA BZ 807.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:



Non-Debug Version: 85.6K Code, 18.0K Data, 103.6K Total

Debug Version: 161.7K Code, 50.9K Data, 212.6K

Total

Current Release:

Non-Debug Version: 85.8K Code, 18.0K Data, 103.8K Total

Debug Version: 161.8K Code, 50.6K Data, 212.4K Total

## 2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a problem where references to external symbols that contained one or more parent-prefixes (carats) were not handled correctly, possibly causing a fault. ACPICA BZ 806. Lin Ming.

Disassembler: Restructured the code so that all functions that handle external symbols are in a single module. One new file is added, common/dmextern.c.

AML Debugger: Added a max count argument for the Batch command (which executes multiple predefined methods within the namespace.)

iASL: Updated the compiler documentation (User Reference.) Available at <http://www.acpica.org/documentation/>. ACPICA BZ 750.

AcpiXtract: Updated for Lint and other formatting changes. Close all open files.

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03 September 2009. Summary of changes for version 20090903:

### 1) ACPI

CA Core Subsystem:

For Windows Vista compatibility, added the automatic execution of an `_INI` method located at the namespace root (`\_INI`). This method is executed at table load time. This support is in addition to the automatic execution of `\_SB._INI`. Lin Ming.

Fixed a possible memory leak in the interpreter for AML package objects if the package initializer list is longer than the defined size of the package. This apparently can only happen if the BIOS changes the package size on the fly (seen in a `_PSS` object), as ASL compilers do not allow this. The interpreter will truncate the package to the defined size (and issue an error



message), but previously could leave the extra objects undeleted if they were pre-created during the argument processing (such is the case if the package consists of a number of sub-packages as in the \_PSS.) ACPICA BZ 805.

Fixed a problem seen when a Buffer or String is stored to itself via ASL. This has been reported in the field. Previously, ACPICA would zero out the buffer/string. Now, the operation is treated as a noop. Provides Windows compatibility. ACPICA BZ 803. Lin Ming.

Removed an extraneous error message for ASL constructs of the form Store(LocalX,LocalX) when LocalX is uninitialized. These curious statements are seen in many BIOSs and are once again treated as NOOPs and no error is emitted when they are encountered. ACPICA BZ 785.

Fixed an extraneous warning message if a \_DSM reserved method returns a Package object. \_DSM can return any type of object, so validation on the return type cannot be performed. ACPICA BZ 802.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

#### Previous Release:

Non-Debug Version: 85.5K Code, 18.0K Data, 103.5K Total

Debug Version: 161.6K Code, 50.9K

Data, 212.5K Total

#### Current Release:

Non-Debug Version: 85.6K Code, 18.0K Data, 103.6K Total

Debug Version: 161.7K Code, 50.9K Data, 212.6K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem with the use of the Alias operator and Resource Templates. The correct alias is now constructed and no error is emitted. ACPICA BZ 738.

iASL: Implemented the -I option to specify additional search directories for include files. Allows multiple additional search paths for include files. Directories are searched in the order specified on the command line



(after  
the local directory is searched.) ACPICA BZ 800.

iASL: Fixed a problem where the full pathname for include files was not emitted for warnings/errors. This caused the IDE support to not work properly. ACPICA BZ 765.

iASL: Implemented the -@ option to specify a Windows-style response file containing additional command line options. ACPICA BZ 801.

AcpiExec: Added support to load multiple AML files simultaneously (such as a DSDT and multiple SSDTs). Also added support for wildcards within the AML pathname. These features allow all machine tables to be easily loaded and debugged together. ACPICA BZ 804.

Disassembler: Added missing support for disassembly of HEST table Error Bank subtables.

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30 July 2009. Summary of changes for version 20090730:

The ACPI 4.0 implementation for ACPICA is complete with this release.

#### 1) ACPI CA Core Subsystem:

ACPI 4.0: Added header file support for all new and changed ACPI tables. Completely new tables are: IBFT, IVRS, MSCT, and WAET. Tables that are new for ACPI 4.0, but have previously been supported in ACPICA are: CPEP, BERT, EINJ, ERST, and HEST. Other newly supported tables are: UEFI and WDAT. There have been some ACPI 4.0 changes to other existing tables. Split the large actbl1.h header into the existing actbl2.h header. ACPICA BZ 774.

ACPI 4.0: Implemented predefined name validation for all new names. There are 31 new names in ACPI 4.0. The predefined validation module was split into two files. The new file is namespace/nsrepair.c. ACPICA BZ 770.

Implemented support for so-called "module-level executable code". This is executable AML code that exists outside of any control method and is



intended  
to be executed at table load time. Although illegal since ACPI 2.0, this  
type  
of code still exists and is apparently still being created. Blocks of  
this  
code are now detected and executed as intended. Currently, the code  
blocks  
must exist under either an If, Else, or While construct; these are the  
typical cases seen in the field. ACPICA BZ 762. Lin Ming.

Implemented an automatic dynamic repair for predefined names that return  
nested Package objects. This applies to predefined names that are defined  
to  
return a variable-length Package of sub-packages. If the number of sub-  
packages is one, BIOS code is occasionally seen that creates a simple  
single  
package  
with no sub-packages. This code attempts to fix the problem by  
wrapping a new package object around the existing package. These methods  
can  
be repaired: \_ALR, \_CSD, \_HPX, \_MLS, \_PRT, \_PSS, \_TRT, and \_TSS. ACPICA  
BZ  
790.

Fixed a regression introduced in 20090625 for the AcpiGetDevices  
interface.  
The \_HID/\_CID matching was broken and no longer matched IDs correctly.  
ACPICA  
BZ 793.

Fixed a problem with AcpiReset where the reset would silently fail if the  
register was one of the protected I/O ports. AcpiReset now bypasses the  
port  
validation mechanism. This may eventually be driven into the  
AcpiRead/Write  
interfaces.

Fixed a regression related to the recent update of the AcpiRead/Write  
interfaces. A sleep/suspend could fail if the optional PM2 Control  
register  
does not exist during an attempt to write the Bus Master Arbitration bit.  
(However, some hosts already delete the code that writes this bit, and  
the  
code may in fact be obsolete at this date.) ACPICA BZ 799.

Fixed  
a problem where AcpiTerminate could fault if inadvertently called  
twice



in succession. ACPICA BZ 795.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 84.7K Code, 17.8K Data, 102.5K Total

Debug Version: 160.5K Code, 50.6K Data, 211.1K Total

Current Release:

Non-Debug Version: 85.5K Code, 18.0K Data, 103.5K Total

Debug Version: 161.6K Code, 50.9K Data, 212.5K Total

2) iASL Compiler/Disassembler and Tools:

ACPI 4.0: Implemented disassembler support for all new ACPI tables and changes to existing tables. ACPICA BZ 775.

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25 June 2009. Summary of changes for version 20090625:

The ACPI 4.0 Specification was released on June 16 and is available at [www.acpi.info](http://www.acpi.info). ACPICA implementation of ACPI 4.0 is underway and will continue for the next few releases.

1) ACPI CA Core Subsystem:

ACPI 4.0: Implemented interpreter support for the IPMI operation region address space. Includes support for bi-directional data buffers and an IPMI address space handler (to be installed by an IPMI device driver.) ACPICA BZ 773. Lin Ming.

ACPI 4.0: Added changes for existing ACPI tables - FACS and SRAT. Includes support in both the header files and the disassembler.

Completed a major update for the AcpiGetObjectInfo external interface. Changes include:

- Support for variable, unlimited length HID, UID, and CID strings.
- Support Processor objects the same as Devices (HID,UID,CID,ADR,STA, etc.)
- Call the \_SxW power methods on behalf of a device object.
- Determine if a device is a PCI root bridge.



- Change the ACPI\_BUFFER parameter to ACPI\_DEVICE\_INFO.

These changes will require an update to all callers of this interface.

See

the updated ACPICA Programmer

Reference for details. One new source file

has

been added - utilities/utids.c. ACPICA BZ 368, 780.

Updated the AcpiRead and AcpiWrite external interfaces to support 64-bit transfers. The Value parameter has been extended from 32 bits to 64 bits in

order to support new ACPI 4.0 tables. These changes will require an update

to

all callers of these interfaces. See the ACPICA Programmer Reference for details. ACPICA BZ 768.

Fixed several problems with AcpiAttachData. The handler was not invoked when

the host node was deleted. The data sub-object was not automatically deleted

when the host node was deleted. The interface to the handler had an unused

parameter, this was removed. ACPICA BZ 778.

Enhanced the function that dumps ACPI table headers. All non-printable characters in the string fields are now replaced with '?' (Signature, OemId,

OemTableId, and CompilerId.) ACPI tables with non-printable characters in these fields are occasionally seen in the field. ACPICA BZ 788.

Fixed a problem with predefined method repair code where the code that attempts to repair/convert an object of incorrect type is only executed on

the first time the predefined method is called. The mechanism that disables

warnings on subsequent calls was interfering with the repair mechanism. ACPICA BZ 781.

Fixed a possible memory leak in the predefined validation/repair code when

a

buffer is automatically converted to an expected string object.

Removed obsolete 16-bit files from the distribution and from the current git

tree head. ACPICA BZ 776.



Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 83.4K Code, 17.5K Data, 100.9K Total

Debug Version: 158.9K Code, 50.0K Data, 208.9K Total

Current Release:

Non-Debug Version: 84.7K Code, 17.8K Data, 102.5K Total

Debug Version: 160.5K Code, 50.6K Data, 211.1K Total

2) iASL Compiler/Disassembler and Tools:

ACPI 4.0: iASL and Disassembler - implemented support for the new IPMI operation region keyword. ACPICA BZ 771, 772. Lin Ming.

ACPI 4.0: iASL - implemented compile-time validation support for all new predefined names and control methods (31 total). ACPICA BZ 769.

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21 May 2009. Summary of changes for version 20090521:

1) ACPI CA Core Subsystem:

Disabled the preservation of the SCI enable bit in the PM1 control register.

The SCI enable bit (bit 0, SCI\_EN) is defined by the ACPI specification to be

a "preserved" bit - "OSPM always preserves this bit position", section 4.7.3.2.1. However, some machines fail if this bit is in fact preserved because the bit needs to be explicitly set by the OS as a workaround. No machines fail if the bit is not preserved. Therefore, ACPICA no longer

attempts to preserve this bit.

Fixed a problem in AcpiRsGetPciRoutingTableLength where an invalid or incorrectly formed \_PRT package could cause a fault. Added validation to ensure that each package element is actually a sub-package.

Implemented a new interface to install or override a single control method,

AcpiInstallMethod. This interface is useful when debugging in order to repair



an existing method or to install a missing method without having to override the entire ACPI table. See the ACPICA Programmer Reference for use and examples. Lin Ming, Bob Moore.

Fixed several reference count issues with the DdbHandle object that is created from a Load or LoadTable operator. Prevent premature deletion of the object. Also, mark the object as invalid once the table has been unloaded.

This is needed because the handle itself may not be deleted after the table unload, depending on whether it has been stored in a named object by the caller. Lin Ming.

Fixed a problem with Mutex Sync Levels. Fixed a problem where if multiple mutexes of the same sync level are acquired but then not released in strict opposite order, the internally maintained Current Sync Level becomes confused and can cause subsequent execution errors. ACPICA BZ 471.

Changed the allowable release order for ASL mutex objects. The ACPI 4.0 specification has been changed to make the SyncLevel for mutex objects more useful. When releasing a mutex, the SyncLevel of the mutex must now be the same as the current sync level. This makes more sense than the previous rule (SyncLevel less than or equal). This change updates the code to match the specification.

Fixed a problem with the local version of the AcpiOsPurgeCache function. The (local) cache must be locked during all cache object deletions. Andrew Baumann.

Updated the Load operator to use operation region interfaces. This replaces direct memory mapping with region access calls. Now, all region accesses go through the installed region handler as they should.

Simplified and optimized the NsGetNextNode function. Reduced parameter count and reduced code for this frequently used function.



Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 82.8K Code, 17.5K Data, 100.3K Total

Debug Version: 158.0K Code, 49.9K Data, 207.9K Total

Current Release:

Non-Debug Version: 83.4K Code, 17.5K Data, 100.9K Total

Debug Version: 158.9K Code, 50.0K Data, 208.9K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed some issues with DMAR, HEST, MADT tables. Some problems with sub-table disassembly and handling invalid sub-tables. Attempt recovery after an invalid sub-table ID.

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22 April

2009. Summary of changes for version 20090422:

1) ACPI CA Core Subsystem:

Fixed a compatibility issue with the recently released I/O port protection mechanism. For windows compatibility, 1) On a port protection violation, simply ignore the request and do not return an exception (allow the control method to continue execution.) 2) If only part of the request overlaps a protected port, read/write the individual ports that are not protected.

Linux

BZ 13036. Lin Ming

Enhanced the execution of the ASL/AML BreakPoint operator so that it actually breaks into the AML debugger if the debugger is present. This matches the ACPI-defined behavior.

Fixed several possible warnings related to the use of the configurable ACPI\_THREAD\_ID. This type can now be configured as either an integer or a pointer with no warnings. Also fixes several warnings in printf-like statements for the 64-bit build when the type is configured as a pointer. ACPICA BZ 766, 767.



Fixed a number of possible warnings when compiling with gcc 4+ (depending on warning options.) Examples include printf formats, aliasing, unused globals, missing prototypes, missing switch default statements, use of non-ANSI library functions, use of non-ANSI constructs. See generate/unix/Makefile for a list of warning options used with gcc 3 and 4. ACPICA BZ 735.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 82.6K Code, 17.6K Data, 100.2K Total

Debug Version: 157.7K Code, 49.9K Data, 207.6K Total

Current Release:

Non-Debug Version: 82.8K Code, 17.5K Data, 100.3K Total

Debug Version: 158.0K Code, 49.9K Data, 207.9K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a generation warning from Bison 2.3 and fixed several warnings

on the 64-bit build.

iASL: Fixed a problem where the Unix/Linux versions of the compiler could not correctly digest Windows/DOS formatted files (with CR/LF).

iASL: Added a new option for "quiet mode" (-va) that produces only the compilation summary, not individual errors and warnings. Useful for large batch compilations.

AcpiExec: Implemented a new option (-z) to enable a forced semaphore/mutex timeout that can be used to detect hang conditions during execution of AML code (includes both internal semaphores and AML-defined mutexes and events.)

Added new makefiles for the generation of acpica in a generic unix-like



environment. These makefiles are intended to generate the acpica tools and utilities from the original acpica git source tree structure.

Test Suites: Updated and cleaned up the documentation files. Updated the copyrights to 2009, affecting all source files. Use the new version of iASL with quiet mode. Increased the number of available semaphores in the Windows OSL, allowing the aslts to execute fully on Windows. For the Unix OSL, added an alternate implementation of the semaphore timeout to allow aslts to execute fully on Cygwin.

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20 March 2009. Summary of changes for version 20090320:

1) ACPI CA Core Subsystem:

Fixed a possible race condition between AcpiWalkNamespace and dynamic table unloads. Added a reader/writer locking mechanism to allow multiple concurrent namespace walks (readers), but block a dynamic table unload until it can gain exclusive write access to the namespace. This fixes a problem where a table unload could (possibly catastrophically) delete the portion of the namespace that is currently being examined by a walk. Adds a new file, utlock.c, that implements the reader/writer lock mechanism. ACPICA BZ 749.

Fixed a regression introduced in version 20090220 where a change to the FADT handling could cause the ACPICA subsystem to access non-existent I/O ports.

Modified the handling of FADT register and table (FACS/DSDT) addresses. The FADT can contain both 32-bit and 64-bit versions of these addresses. Previously, the 64-bit versions were favored, meaning that if both 32 and 64 versions were valid, but not equal, the 64-bit version was used. This was found to cause some machines to fail. Now, in this case, the 32-bit version



is used instead. This now matches the Windows behavior.

Implemented a new mechanism to protect certain I/O ports. Provides Microsoft compatibility and protects the standard PC I/O ports from access via AML code. Adds a new file, hwvalid.c

Fixed a possible extraneous warning message from the FADT support. The message warns of a 32/64 length mismatch between the legacy and GAS definitions for a register.

Removed the obsolete AcpiOsValidateAddress OSL interface. This interface is made obsolete by the port protection mechanism above. It was previously used to validate the entire address range of an operation region, which could be incorrect if the range included illegal ports, but fields within the operation region did not actually access those ports. Validation is now performed on a per-field basis instead of the entire region.

Modified the handling of the PM1 Status Register ignored bit (bit 11.) Ignored bits must be "preserved" according to the ACPI spec. Usually, this means a read/modify/write when writing to the register. However, for status registers, writing a one means clear the event. Writing a zero means preserve the event (do not clear.) This behavior is clarified in the ACPI 4.0 spec, and the ACPICA code now simply always writes a zero to the ignored bit.

Modified the handling of ignored bits for the PM1 A/B Control Registers. As per the ACPI specification, for the control registers, preserve (read/modify/write) all bits that are defined as either reserved or ignored.

Updated the handling of write-only bits in the PM1 A/B Control Registers. When reading the register, zero the write-only bits as per the ACPI spec. ACPICA BZ 443. Lin Ming.

Removed "Linux" from the list of supported \_OSI strings. Linux no longer wants to reply true to this request. The Windows strings are the only paths through the AML that are tested and known to work properly.



Previous Release:

Non-Debug Version: 82.0K Code, 17.5K Data, 99.5K Total

Debug Version: 156.9K Code, 49.8K Data, 206.7K Total

Current Release:

Non-Debug Version: 82.6K Code, 17.6K Data, 100.2K Total

Debug Version: 157.7K Code, 49.9K Data, 207.6K Total

## 2) iASL Compiler/Disassembler and Tools:

Acpiexec: Split the large aeexec.c file into two new files, aehandlers.c and aetables.c

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20 February 2009. Summary of changes for version 20090220:

### 1) ACPI CA Core Subsystem:

Optimized the ACPI register locking. Removed locking for reads from the ACPI

bit registers in PM1 Status, Enable, Control, and PM2 Control.

The lock

is

not required when reading the single-bit registers. The

AcpiGetRegisterUnlocked function is no longer needed and has been removed.

This will improve performance for reads on these registers. ACPICA BZ 760.

Fixed the parameter validation for AcpiRead/Write. Now return AE\_BAD\_PARAMETER if the input register pointer is null, and AE\_BAD\_ADDRESS

if

the register has an address of zero. Previously, these cases simply returned

AE\_OK. For optional registers such as PM1B status/enable/control, the caller

should check for a valid register address before calling. ACPICA BZ 748.

Renamed the external ACPI bit register access functions. Renamed AcpiGetRegister and AcpiSetRegister to clarify the purpose of these functions. The new names are AcpiReadBitRegister and AcpiWriteBitRegister.

Also, restructured the code for these functions by simplifying the code path

and condensing duplicate code to reduce code size.



Added new functions to transparently handle the possibly split PM1 A/B registers. AcpiHwReadMultiple and AcpiHwWriteMultiple. These two functions now handle the split registers for PM1 Status, Enable, and Control. ACPICA BZ 746.

Added a function to handle the PM1 control registers, AcpiHwWritePm1Control. This function writes both of the PM1 control registers (A/B). These registers are different than the PM1 A/B status and enable registers in that different values can be written to the A/B registers. Most notably, the SLP\_TYP bits can be different, as per the values returned from the \_Sx predefined methods.

Removed an extra register write within AcpiHwClearAcpiStatus. This function was writing an optional PM1B status register twice. The existing call to the low-level AcpiHwRegisterWrite automatically handles a possibly split PM1 A/B register. ACPICA BZ 751.

Split out the PM1 Status registers from the FADT. Added new globals for these registers (A/B), similar to the way the PM1 Enable registers are handled. Instead of overloading the FADT Event Register blocks. This makes the code clearer and less prone to error.

Fixed the warning message for when the platform contains too many ACPI tables for the default size of the global root table data structure. The calculation for the truncation value was incorrect.

Removed the ACPI\_GET\_OBJECT\_TYPE macro. Removed all instances of this obsolete macro, since it is now a simple reference to ->common.type. There were about 150 invocations of the macro across 41 files. ACPICA BZ 755.

Removed the redundant ACPI\_BITREG\_SLEEP\_TYPE\_B. This type is the same as



TYPE\_A. Removed this and all related instances. Renamed SLEEP\_TYPE\_A to simply SLEEP\_TYPE. ACPIA BZ 754.

Conditionally compile the AcpiSetFirmwareWakingVector64 function. This function is only needed on 64-bit host operating systems and is thus not included for 32-bit hosts.

Debug output: print the input and result for invocations of the \_OSI reserved control method via the ACPI\_LV\_INFO debug level. Also, reduced some of the verbosity of this debug level. Len Brown.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 82.3K Code, 17.5K Data, 99.8K Total

Debug Version: 157.3K Code, 49.8K Data, 207.1K Total

Current Release:

Non-Debug Version: 82.0K Code, 17.5K Data, 99.5K Total

Debug Version: 156.9K Code, 49.8K Data, 206.7K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Decode the FADT PM\_Profile field. Emit ascii names for the various legal performance profiles.

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23 January 2009. Summary of changes for version 20090123:

1) ACPI CA Core Subsystem:

Added the 2009 copyright to all module headers and signons. This affects virtually every file in the ACPIA core subsystem, the iASL compiler, and the tools/utilities.

Implemented a change to allow the host to override any ACPI table, including dynamically loaded tables. Previously, only the DSDT could be replaced by the host. With this change, the AcpiOsTableOverride interface is called for each



table found in the RSDT/XSDT during ACPICA initialization, and also whenever a table is dynamically loaded via the AML Load operator.

Updated FADT flag definitions, especially the Boot Architecture flags.

Debugger: For the Find command, automatically pad the input ACPI name with underscores if the name is shorter than 4 characters. This enables a match with the actual namespace entry which is itself padded with underscores.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 82.3K Code, 17.4K Data, 99.7K Total

Debug Version: 157.1K Code, 49.7K Data, 206.8K Total

Current Release:

Non-Debug Version: 82.3K Code, 17.5K Data, 99.8K Total

Debug Version: 157.3K Code, 49.8K Data, 207.1K Total

## 2) iASL Compiler/Disassembler and Tools:

Fix build error under Bison-2.4.

Disassembler: Enhanced FADT support. Added decoding of the Boot Architecture flags. Now decode all flags, regardless of the FADT version. Flag output includes the FADT version which first defined each flag.

The iASL -g option now dumps the RSDT to a file (in addition to the FADT and DSDT). Windows only.

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04 December 2008. Summary of changes for version 20081204:

### 1) ACPI CA Core Subsystem:

The ACPICA Programmer Reference has been completely updated and revamped for this release. This includes updates to the external interfaces, OSL interfaces, the overview sections, and the



debugger reference.

Several new ACPICA interfaces have been implemented and documented in the programmer reference:

AcpiReset - Writes the reset value to the FADT-defined reset register.

AcpiDisableAllGpes - Disable all available GPEs.

AcpiEnableAllRuntimeGpes - Enable all available runtime GPEs.

AcpiGetGpeDevice - Get the GPE block device associated with a GPE.

AcpiGbl\_CurrentGpeCount - Tracks the current number of available GPEs.

AcpiRead - Low-level read ACPI register (was HwLowLevelRead.)

AcpiWrite - Low-level write ACPI register (was HwLowLevelWrite.)

Most of the public ACPI hardware-related interfaces have been moved to a new

file, components/hardware/hwxface.c

Enhanced the FADT parsing and low-level ACPI register access: The ACPI register lengths within the FADT are now used, and the low level ACPI register access no longer hardcodes the ACPI register lengths. Given that there may be some risk in actually trusting the FADT register lengths, a run-

time option was added

to fall back to the default hardcoded lengths if

the

FADT proves to contain incorrect values - UseDefaultRegisterWidths. This option is set to true for now, and a warning is issued if a suspicious FADT

register length is overridden with the default value.

Fixed a reference count issue in NsRepairObject. This problem was introduced

in version 20081031 as part of a fix to repair Buffer objects within Packages. Lin Ming.

Added semaphore support to the Linux/Unix application OS-services layer (OSL). ACPICA BZ 448. Lin Ming.

Added the ACPI\_MUTEX\_TYPE configuration option to select whether mutexes will

be implemented in the OSL, or will binary semaphores be used instead.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:



Non-Debug Version: 81.7K  
Code, 17.3K Data, 99.0K Total  
Debug Version: 156.4K Code, 49.4K Data, 205.8K Total  
Current Release:  
Non-Debug Version: 82.3K Code, 17.4K Data, 99.7K Total  
Debug Version: 157.1K Code, 49.7K Data, 206.8K Total

## 2) iASL Compiler/Disassembler and Tools:

iASL: Completed the '-e' option to include additional ACPI tables in order to aid with disassembly and External statement generation. ACPICA BZ 742.  
Lin  
Ming.

iASL: Removed the "named object in while loop" error. The compiler cannot determine how many times a loop will execute. ACPICA BZ 730.

Disassembler: Implemented support for FADT revision 2 (MS extension).  
ACPICA  
BZ 743.

Disassembler: Updates for several ACPI data tables (HEST, EINJ, and MCFG).

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31 October 2008. Summary of changes for version 20081031:

### 1) ACPI CA Core Subsystem:

Restructured the ACPICA header files into public/private. acpi.h now includes only the "public" acpica headers. All other acpica headers are "private" and should not be included by acpica users. One new file, accommon.h is used to include the commonly used private headers for acpica code generation. Future plans include moving all private headers to a new subdirectory.

Implemented an automatic Buffer->String return value conversion for predefined ACPI methods. For these methods (such as \_BIF), added automatic conversion for return objects that are required to be a String, but a Buffer was found instead. This can happen when reading string battery data from



an operation region, because it used to be difficult to convert the data from buffer to string from within the ASL. Ensures that the host OS is provided with a valid null-terminated string. Linux BZ 11822.

Updated the FACS waking vector interfaces. Split `AcpiSetFirmwareWakingVector` into two: one for the 32-bit vector, another for the 64-bit vector. This is required because the host OS must setup the wake much differently for each vector (real vs. protected mode, etc.) and the interface itself should not be deciding which vector to use. Also, eliminated the `GetFirmwareWakingVector` interface, as it served no purpose (only the firmware reads the vector, OS only writes the vector.) ACPICA BZ 731.

Implemented a mechanism to escape infinite AML While() loops. Added a loop counter to force exit from AML While loops if the count becomes too large. This can occur in poorly written AML when the hardware does not respond within a while loop and the loop does not implement a timeout. The maximum loop count is configurable. A new exception code is returned when a loop is broken, `AE_AML_INFINITE_LOOP`. Alexey Starikovskiy, Bob Moore.

Optimized the execution of AML While loops. Previously, a control state object was allocated and freed for each execution of the loop. The optimization is to simply reuse the control state for each iteration. This speeds up the raw loop execution time by about 5%.

Enhanced the implicit return mechanism. For Windows compatibility, return an implicit integer of value zero for methods that contain no executable code. Such methods are seen in the field as stubs (presumably), and can cause drivers to fail if they expect a return value. Lin Ming.



Allow multiple backslashes as root prefixes in namepaths. In a fully qualified namepath, allow multiple backslash prefixes. This can happen (and is seen in the field) because of the use of a double-backslash in strings (since backslash is the escape character) causing confusion. ACPICA BZ 739  
Lin Ming.

Emit a warning if two different FACS or DSDT tables are discovered in the FADT. Checks if there are two valid but different addresses for the FACS and DSDT within the FADT (mismatch between the 32-bit and 64-bit fields.)

Consolidated the method argument count validation code. Merged the code that validates control method argument counts into the predefined validation module. Eliminates possible multiple warnings for incorrect argument counts.

Implemented ACPICA example code. Includes code for ACPICA initialization, handler installation, and calling a control method. Available at [source/tools/examples](#).

Added a global pointer for FACS table to simplify internal FACS access. Use the global pointer instead of using `AcpiGetTableByIndex` for each FACS access. This simplifies the code for the Global Lock and the Firmware Waking Vector(s).

Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 81.2K Code, 17.0K Data, 98.2K Total

Debug Version: 155.8K Code, 49.1K Data, 204.9K Total

Current Release:

Non-Debug Version: 81.7K Code, 17.3K Data, 99.0K Total

Debug Version: 156.4K Code, 49.4K Data, 205.8K Total

2) iASL Compiler/Disassembler  
and Tools:

iASL: Improved disassembly of external method calls. Added the `-e` option



to  
allow the inclusion of additional ACPI tables to help with the  
disassembly  
of  
method invocations and the generation of external declarations during the  
disassembly. Certain external method invocations cannot be disassembled  
properly without the actual declaration of the method. Use the -e option  
to  
include the table where the external method(s) are actually declared.  
Most  
useful for disassembling SSDTs that make method calls back to the master  
DSDT. Lin Ming. Example: To disassemble an SSDT with calls to DSDT: iasl  
-d  
-e dsdt.aml ssdt1.aml

iASL: Fix to allow references to aliases within ASL namepaths. Fixes a  
problem where the use of an alias within a namepath would result in a not  
found error or cause the compiler to fault. Also now allows forward  
references from the Alias operator itself. ACPICA BZ 738.

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26 September  
2008. Summary of changes for version 20080926:

#### 1) ACPI CA Core Subsystem:

Designed and implemented a mechanism to validate predefined ACPI methods  
and  
objects. This code validates the predefined ACPI objects (objects whose  
names  
start with underscore) that appear in the namespace, at the time they are  
evaluated. The argument count and the type of the returned object are  
validated against the ACPI specification. The purpose of this validation  
is  
to detect problems with the BIOS-implemented predefined ACPI objects  
before  
the results are returned to the ACPI-related drivers. Future enhancements  
may  
include actual repair of incorrect return objects where possible. Two new  
files are nspredef.c and acpredef.h.

Fixed a fault in the AML parser if a memory allocation fails during the  
Op  
completion routine AcpiPsCompleteThisOp. Lin Ming. ACPICA BZ 492.

Fixed an issue with implicit return compatibility. This change improves  
the  
implicit return mechanism to be more compatible



with the MS interpreter.

Lin

Ming, ACPICA BZ 349.

Implemented support for zero-length buffer-to-string conversions. Allow zero

length strings during interpreter buffer-to-string conversions. For example,

during the ToDecimalString and ToHexString operators, as well as implicit conversions. Fiodor Suietov, ACPICA BZ 585.

Fixed two possible memory leaks in the error exit paths of AcpiUtUpdateObjectReference and AcpiUtWalkPackageTree. These functions are

similar in that they use a stack of state objects in order to eliminate recursion. The stack must be fully unwound and deallocated if an error occurs. Lin Ming. ACPICA BZ 383.

Removed the unused ACPI\_BITREG\_WAKE\_ENABLE definition and entry in the global

ACPI register table. This bit does not exist and is unused. Lin Ming, Bob Moore ACPICA BZ 442.

Removed the obsolete version number in module headers. Removed the "\$Revision" number that appeared in each module header. This version number

was useful under SourceSafe and

CVS, but has no meaning under git. It is not

only incorrect, it could also be misleading.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a

much larger code and data size.

Previous Release:

Non-Debug Version: 79.7K Code, 16.4K Data, 96.1K Total

Debug Version: 153.7K Code, 48.2K Data, 201.9K Total

Current Release:

Non-Debug Version: 81.2K Code, 17.0K Data, 98.2K Total

Debug Version: 155.8K Code, 49.1K Data, 204.9K Total

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29 August 2008. Summary of changes for version 20080829:

1) ACPI CA Core Subsystem:



Completed a major cleanup of the internal ACPI\_OPERAND\_OBJECT of type Reference. Changes include the elimination of cheating on the Object field for the DdbHandle subtype, addition of a reference class field to differentiate the various reference types (instead of an AML opcode), and the cleanup of debug output for this object. Lin Ming, Bob Moore. BZ 723

Reduce an error to a warning for an incorrect method argument count. Previously aborted with an error if too few arguments were passed to a control method via the external ACPICA interface. Now issue a warning instead and continue. Handles the case where the method inadvertently declares too many arguments, but does not actually use the extra ones. Applies mainly to the predefined methods. Lin Ming. Linux BZ 11032.

Disallow the evaluation of named object types with no intrinsic value. Return AE\_TYPE for objects that have no value and therefore evaluation is undefined: Device, Event, Mutex, Region, Thermal, and Scope. Previously, evaluation of these types were allowed, but an exception would be generated at some point during the evaluation. Now, the error is generated up front.

Fixed a possible memory leak in the AcpiNsGetExternalPathname function (nsnames.c). Fixes a leak in the error exit path.

Removed the obsolete debug levels ACPI\_DB\_WARN and ACPI\_DB\_ERROR. These debug levels were made obsolete by the ACPI\_WARNING, ACPI\_ERROR, and ACPI\_EXCEPTION interfaces. Also added ACPI\_DB\_EVENTS to correspond with the existing ACPI\_LV\_EVENTS.

Removed obsolete and/or unused exception codes from the acexcep.h header. There is the possibility that certain device drivers may be affected if they use any of these exceptions.

The ACPICA documentation has been added to the public git source tree, under



acpica/documents. Included are the ACPICA programmer reference, the iASL compiler reference, and the changes.txt release logfile.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version:

79.7K Code, 16.4K Data, 96.1K Total

Debug Version: 153.9K Code, 48.4K Data, 202.3K Total

Current Release:

Non-Debug Version: 79.7K Code, 16.4K Data, 96.1K Total

Debug Version: 153.7K Code, 48.2K Data, 201.9K Total

## 2) iASL Compiler/Disassembler and Tools:

Allow multiple argument counts for the predefined \_SCP method. ACPI 3.0 defines \_SCP with 3 arguments. Previous versions defined it with only 1 argument. iASL now allows both definitions.

iASL/disassembler: avoid infinite loop on bad ACPI tables. Check for zero-

length subtables when disassembling ACPI tables. Also fixed a couple of errors where a full 16-bit table type field was not extracted from the input properly.

acpisrc: Improve comment counting mechanism for generating source code statistics. Count first and last lines of multi-line comments as whitespace, not comment lines. Handle Linux legal header in addition to standard acpica header.

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29

July 2008. Summary of changes for version 20080729:

## 1) ACPI CA Core Subsystem:

Fix a possible deadlock in the GPE dispatch. Remove call to AcpiHwDisableAllGpes during wake in AcpiEvGpeDispatch. This call will attempt to acquire the GPE lock but can deadlock since the GPE lock is already



held

at dispatch time. This code was introduced in version 20060831 as a response to Linux BZ 6881 and has since been removed from Linux.

Add a function to dereference returned reference objects. Examines the return object from a call to AcpiEvaluateObject. Any Index or RefOf references are automatically dereferenced in an attempt to return something useful (these reference types cannot be converted into an external ACPI\_OBJECT.) Provides MS compatibility. Lin Ming, Bob Moore. Linux BZ 11105

x2APIC support: changes for MADT and SRAT ACPI tables. There are 2 new subtables for the MADT and one new subtable for the SRAT. Includes disassembler and AcpiSrc support. Data from the Intel 64 Architecture x2APIC Specification, June 2008.

Additional error checking for pathname utilities. Add error check after all calls to AcpiNsGetPathnameLength. Add status return from AcpiNsBuildExternalPath and check after all calls. Add parameter validation to AcpiUtInitializeBuffer. Reported by and initial patch by Ingo Molnar.

Return status from the global init function AcpiUtGlobalInitialize. This is used by both the kernel subsystem and the utilities such as iASL compiler. The function could possibly fail when the caches are initialized. Yang Yi.

Add a function to decode reference object types to strings. Created for improved error messages.

Improve object conversion error messages. Better error messages during object conversion from internal to the external ACPI\_OBJECT. Used for external calls to AcpiEvaluateObject.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug



version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 79.6K Code, 16.2K Data, 95.8K Total

Debug Version: 153.5K Code, 48.2K Data, 201.7K Total

Current Release:

Non-Debug Version: 79.7K Code, 16.4K Data, 96.1K Total

Debug Version: 153.9K Code, 48.4K Data, 202.3K Total

2) iASL Compiler/Disassembler and Tools:

Debugger: fix a possible hang when evaluating non-methods. Fixes a problem introduced in version 20080701. If the object being evaluated (via execute command) is not a method, the debugger can hang while trying to obtain non-existent parameters.

iASL: relax error for using reserved "\_T\_x" identifiers. These names can appear in a disassembled ASL file if they were emitted by the original compiler. Instead of issuing an error or warning and forcing the user to manually change these names, issue a remark instead.

iASL: error if named object created in while loop. Emit an error if any named object is created within a While loop. If allowed, this code will generate a run-time error on the second iteration of the loop when an attempt is made to create the same named object twice. ACPICA bugzilla 730.

iASL: Support absolute pathnames for include files. Add support for absolute pathnames within the Include operator. previously, only relative pathnames were supported.

iASL: Enforce minimum 1 interrupt in interrupt macro and Resource Descriptor.  
The ACPI spec requires one interrupt minimum. BZ 423

iASL: Handle a missing ResourceSource arg, with a present SourceIndex.



Handles the case for the Interrupt Resource Descriptor where the ResourceSource argument is omitted but ResourceSourceIndex is present. Now leave room for the Index. BZ 426

iASL: Prevent error message if CondRefOf target does not exist. Fixes cases where an error message is emitted if the target does not exist. BZ 516

iASL: Fix broken -g option (get Windows ACPI tables). Fixes the -g option (get ACPI tables on Windows). This was apparently broken in version 20070919.

AcpiXtract: Handle EOF while extracting data. Correctly handle the case where the EOF happens immediately after the last table in the input file. Print completion message. Previously, no message was displayed in this case.

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01 July 2008. Summary of changes for version 20080701:

0) Git source tree / acpica.org

Fixed a problem where a git-clone from http would not transfer the entire source tree.

1) ACPI CA Core Subsystem:

Implemented a "careful" GPE disable in AcpiEvDisableGpe, only modify one enable bit. Now performs a read-change-write of the enable register instead of simply writing out the cached enable mask. This will prevent inadvertent enabling of GPEs if a rogue GPE is received during initialization (before GPE handlers are installed.)

Implemented a copy for dynamically loaded tables. Previously, dynamically loaded tables were simply mapped - but on some machines this memory is corrupted after suspend. Now copy the table to a local buffer. For the OpRegion case, added checksum verify. Use the table length from the table header, not the region length. For the Buffer case, use the table length also. Dennis Noordsij, Bob Moore. BZ 10734

Fixed a problem where the same ACPI table could not be dynamically loaded and unloaded more than once. Without this change, a table cannot be loaded



again

once it has been loaded/unloaded one time. The current mechanism does not unregister a table upon an unload. During a load, if the same table is found, this no longer returns an exception. BZ 722

Fixed a problem where the wrong descriptor length was calculated for the EndTag descriptor in 64-bit mode. The "minimal" descriptors such as EndTag are calculated as 12 bytes long, but the actual length in the internal descriptor is 16 because of the round-up to 8 on the 64-bit build. Reported

by Linn Crosetto. BZ 728

Fixed a possible memory leak in the Unload operator. The DdbHandle returned by Load() did not have its reference count decremented during unload, leading to a memory leak. Lin Ming. BZ 727

Fixed a possible memory leak when deleting thermal/processor objects. Any associated notify handlers (and objects) were not being deleted. Fiodor Suietov. BZ 506

Fixed the ordering of the ASCII names in the global mutex table to match the actual mutex IDs. Used by AcpiUtGetMutexName, a function used for debug only. Vegard Nossum. BZ 726

Enhanced the AcpiGetObjectInfo interface to return the number of required arguments if the object is a control method. Added this call to the debugger so the proper number of default arguments are passed to a method. This prevents a warning when executing methods from AcpiExec.

Added a check for an invalid handle in AcpiGetObjectInfo. Return AE\_BAD\_PARAMETER if input handle is invalid. BZ 474

Fixed an extraneous warning from exconfig.c on the 64-bit build.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.



Previous Release:

Non-Debug Version: 79.3K Code, 16.2K Data, 95.5K Total

Debug Version: 153.0K Code, 48.2K Data, 201.2K Total

Current Release:

Non-Debug Version: 79.6K Code, 16.2K Data, 95.8K Total

Debug Version: 153.5K Code, 48.2K Data, 201.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Added two missing ACPI reserved names. Added \_MTP and \_ASZ, both resource descriptor names.

iASL: Detect invalid ASCII characters in input (windows version). Removed the

"-CF" flag from the flex compile, enables correct detection of non-ASCII characters in the input. BZ 441

iASL: Eliminate warning when result of LoadTable is not used. Eliminate the

"result of

operation not used" warning when the DDB handle returned from LoadTable is not used. The warning is not needed. BZ 590

AcpiExec: Add support for dynamic table load/unload. Now calls \_CFG method

to

pass address of table to the AML. Added option to disable OpRegion simulation

to allow creation of an OpRegion with a real address that was passed to \_CFG.

All of this allows testing of the Load and Unload operators from AcpiExec.

Debugger: update tables command for unloaded tables. Handle unloaded tables

and use the standard table header output routine.

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09 June 2008. Summary of changes for version 20080609:

1) ACPI CA Core Subsystem:

Implemented a workaround for reversed \_PRT entries. A significant number of

BIOSs erroneously reverse the \_PRT SourceName and the SourceIndex. This change dynamically detects and repairs this problem. Provides compatibility



with MS ACPI. BZ 6859

Simplified the internal ACPI hardware interfaces to eliminate the locking flag parameter from Register Read/Write. Added a new external interface, AcpiGetRegisterUnlocked.

Fixed a problem where the invocation of a GPE control method could hang. This was a regression introduced in 20080514. The new method argument count validation mechanism can enter an infinite loop when a GPE method is dispatched. Problem fixed by removing the obsolete code that passed GPE block information to the notify handler via the control method parameter pointer.

Fixed a problem where the \_SST execution status was incorrectly returned to the caller of AcpiEnterSleepStatePrep. This was a regression introduced in 20080514. \_SST is optional and a NOT\_FOUND exception should never be returned. BZ 716

Fixed a problem where a deleted object could be accessed from within the AML parser. This was a regression introduced in version 20080123 as a fix for the Unload operator. Lin Ming. BZ 10669

Cleaned up the debug operand dump mechanism. Eliminated unnecessary operands and eliminated the use of a negative index in a loop. Operands are now displayed in the correct order, not backwards. This also fixes a regression introduced in 20080514 on 64-bit systems where the elimination of ACPI\_NATIVE\_UINT caused the negative index to go large and positive. BZ 715

Fixed a possible memory leak in EvPciConfigRegionSetup where the error exit path did not delete a locally allocated structure.

Updated definitions for the DMAR and SRAT tables to synchronize with the current specifications. Includes disassembler support.

Fixed a problem in the mutex debug code (in utmutex.c) where an incorrect loop termination value was used. Loop terminated on iteration early,



missing  
one mutex. Linn Crosetto

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 79.5K Code, 16.2K Data, 95.7K Total

Debug Version: 153.3K Code, 48.3K Data, 201.6K Total

Current Release:

Non-Debug Version: 79.3K Code, 16.2K Data, 95.5K Total

Debug Version: 153.0K Code, 48.2K Data, 201.2K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Implemented support for EisaId() within \_CID objects. Now disassemble integer \_CID objects back to EisaId invocations, including multiple integers within \_CID packages. Includes single-step support for debugger also.

Disassembler: Added support for DMAR and SRAT table definition changes.

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14 May 2008. Summary of changes for version 20080514:

1) ACPI CA Core Subsystem:

Fixed a problem where GPEs were enabled too early during the ACPICA initialization. This could lead to "handler not installed" errors on some machines. Moved GPE enable until after \_REG/\_STA/\_INI methods are run.

This

ensures

that all operation regions and devices throughout the namespace

have

been initialized before GPEs are enabled. Alexey Starikovskiy, BZ 9916.

Implemented a change to the enter sleep code. Moved execution of the \_GTS method to just before setting sleep enable bit. The execution was moved from

AcpiEnterSleepStatePrep to AcpiEnterSleepState. \_GTS is now executed immediately before the SLP\_EN bit is set, as per the ACPI specification.

Luming Yu, BZ 1653.

Implemented a fix to disable unknown GPEs (2nd version). Now always



disable

the GPE, even if ACPICA thinks that that it is already disabled. It is possible that the AML or some other code has enabled the GPE unbeknownst to the ACPICA code.

Fixed a problem with the Field operator where zero-length fields would return an AE\_AML\_NO\_OPERAND exception during table load. Fix enables zero-length ASL field declarations in Field(), BankField(), and IndexField(). BZ 10606.

Implemented a fix for the Load operator, now load the table at the namespace root. This reverts a change introduced in version 20071019. The table is now loaded at the namespace root even though this goes against the ACPI specification. This provides compatibility with other ACPI implementations. The ACPI specification will be updated to reflect this in ACPI 4.0. Lin Ming.

Fixed a problem where ACPICA would not Load() tables with unusual signatures. Now ignore ACPI table signature for Load() operator. Only "SSDT" is acceptable to the ACPI spec, but tables are seen with OEMx and null sigs. Therefore, signature validation is worthless. Apparently MS ACPI accepts such signatures, ACPICA must be compatible. BZ 10454.

Fixed a possible negative array index in AcpiUtValidateException. Added NULL fields to the exception string arrays to eliminate a -1 subtraction on the SubStatus field.

Updated the debug tracking macros to reduce overall code and data size. Changed ACPI\_MODULE\_NAME and ACPI\_FUNCTION\_NAME to use arrays of strings instead of pointers to static strings. Jan Beulich and Bob Moore.

Implemented argument count checking in control method invocation via AcpiEvaluateObject. Now emit an error if too few arguments, warning if too many. This applies only to extern programmatic control method execution, not method-to-method calls within the AML. Lin Ming.



Eliminated the ACPI\_NATIVE\_UINT type across all ACPICA code. This type is no longer needed, especially with the removal of 16-bit support. It was replaced mostly with UINT32, but also ACPI\_SIZE where a type that changes 32/64 bit on 32/64-bit platforms is required.

Added the C const qualifier for appropriate string constants -- mostly MODULE\_NAME and printf format strings. Jan Beulich.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 80.0K Code, 17.4K Data, 97.4K Total

Debug Version: 159.4K Code, 64.4K Data, 223.8K Total

Current Release:

Non-Debug Version: 79.5K Code, 16.2K Data, 95.7K Total

Debug Version: 153.3K Code, 48.3K Data, 201.6K Total

2) iASL Compiler/Disassembler and Tools:

Implemented ACPI table revision ID validation in the disassembler. Zero is always invalid. For DSDTs, the ID controls the interpreter integer width. 1 means 32-bit and this is unusual. 2 or greater is 64-bit.

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21 March 2008. Summary of changes for version 20080321:

1) ACPI CA Core Subsystem:

Implemented an additional change to the GPE support in order to suppress spurious or stray GPEs. The AcpiEvDisableGpe function will now permanently disable incoming GPEs that are neither enabled nor disabled -- meaning that the GPE is unknown to the system. This should prevent future interrupt floods from that GPE. BZ 6217



(Zhang Rui)

Fixed a problem where NULL package elements were not returned to the AcpiEvaluateObject interface correctly. The element was simply ignored instead of returning a NULL ACPI\_OBJECT package element, potentially causing a buffer overflow and/or confusing the caller who expected a fixed number of elements. BZ 10132 (Lin Ming, Bob Moore)

Fixed a problem with the CreateField, CreateXXXField (Bit, Byte, Word, Dword, Qword), Field, BankField, and IndexField operators when invoked from inside an executing control method. In this case, these operators created namespace nodes that were incorrectly left marked as permanent nodes instead of temporary nodes. This could cause a problem if there is race condition between an exiting control method and a running namespace walk. (Reported by Linn Crosetto)

Fixed a problem where the CreateField and CreateXXXField operators would incorrectly allow duplicate names (the name of the field) with no exception generated.

Implemented several changes for Notify handling. Added support for new Notify values (ACPI 2.0+) and improved the Notify debug output. Notify on PowerResource objects is no longer allowed, as per the ACPI specification. (Bob Moore, Zhang Rui)

All Reference Objects returned via the AcpiEvaluateObject interface are now marked as type "REFERENCE" instead of "ANY". The type ANY is now reserved for NULL objects - either NULL package elements or unresolved named references.

Fixed a problem where an extraneous debug message was produced for package objects (when debugging enabled). The message "Package List length larger than NumElements count" is now produced in the correct case, and is now an error message rather than a debug message. Added a debug message for the



opposite case, where NumElements is larger than the Package List (the package will be padded out with NULL elements as per the ACPI spec.)

Implemented several improvements for the output of the ASL "Debug" object to clarify and keep all data for a given object on one output line.

Fixed two size calculation issues with the variable-length Start Dependent resource descriptor.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 79.7K Code, 17.3K Data, 97.0K Total

Debug Version: 158.9K Code, 64.0K Data, 222.9K Total

Current Release:

Non-Debug Version: 80.0K Code, 17.4K Data, 97.4K Total

Debug Version: 159.4K Code, 64.4K Data, 223.8K Total

2) iASL Compiler/Disassembler and Tools:

Fixed a problem with the use of the Switch operator where execution of the containing method by multiple concurrent threads could cause an AE\_ALREADY\_EXISTS exception. This is caused by the fact that there is no actual Switch opcode, it must be simulated with local named temporary variables and if/else pairs. The solution chosen was to mark any method that uses Switch as Serialized, thus preventing multiple thread entries. BZ 469.

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13 February 2008. Summary of changes for version 20080213:

1) ACPI CA Core Subsystem:

Implemented another MS compatibility design change for GPE/Notify handling. GPEs are now cleared/enabled asynchronously to allow all pending notifies to



complete first. It is expected that the OSL will queue the enable request behind all pending notify requests (may require changes to the local host OSL in AcpiOsExecute). Alexey Starikovskiy.

Fixed a problem where buffer and package objects passed as arguments to a control method via the external AcpiEvaluateObject interface could cause an AE\_AML\_INTERNAL exception depending on the order and type of operators executed by the target control method.

Fixed a problem where resource descriptor size optimization could cause a problem when a \_CRS resource template is passed to a \_SRS method. The \_SRS resource template must use the same descriptors (with the same size) as returned from \_CRS. This change affects the following resource descriptors:  
IRQ / IRQNoFlags and StartDependentFn / StartDependentFnNoPri. (BZ 9487)

Fixed a problem where a CopyObject to RegionField, BankField, and IndexField objects did not perform an implicit conversion as it should. These types must retain their initial type permanently as per the ACPI specification. However, a CopyObject to all other object types should not perform an implicit conversion, as per the ACPI specification. (Lin Ming, Bob Moore) BZ 388

Fixed a problem with the AcpiGetDevices interface where the mechanism to match device CIDs did not examine the entire list of available CIDs, but instead aborted on the first non-matching CID. Andrew Patterson.

Fixed a regression introduced in version 20071114. The ACPI\_HIDWORD macro was

inadvertently changed to return a 16-bit value instead of a 32-bit value, truncating the upper dword of a 64-bit value. This macro is only used to display debug output, so no incorrect calculations were made. Also, reimplemented the macro so that a 64-bit shift is not performed by inefficient compilers.

Added missing va\_end statements that should correspond with each va\_start statement.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The



debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 79.5K Code, 17.2K Data, 96.7K Total

Debug Version: 159.0K Code, 63.8K Data, 222.8K Total

Current Release:

Non-Debug Version: 79.7K Code, 17.3K Data, 97.0K Total

Debug Version: 158.9K Code, 64.0K Data, 222.9K Total

2) iASL Compiler/Disassembler and Tools:

Implemented full

disassembler support for the following new ACPI tables:

BERT, EINJ, and ERST. Implemented partial disassembler support for the complicated HEST table. These tables support the Windows Hardware Error Architecture (WHEA).

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23 January 2008. Summary of changes for version 20080123:

1) ACPI CA Core Subsystem:

Added the 2008 copyright to all module headers and signons. This affects virtually every file in the ACPICA core subsystem, the iASL compiler, and the tools/utilities.

Fixed a problem with the SizeOf operator when used with Package and Buffer

objects. These objects have deferred execution for some arguments, and the

execution is now completed before the SizeOf is executed. This problem caused

unexpected AE\_PACKAGE\_LIMIT errors on some systems (Lin Ming, Bob Moore)

BZ

9558

Implemented an enhancement to the interpreter "slack mode". In the absence

of

an explicit return or an implicitly returned object from the last executed

opcode, a control method will now implicitly return an integer of value 0 for

Microsoft compatibility. (Lin Ming) BZ 392



Fixed a problem with the Load operator where an exception was not returned in the case where the table is already loaded. (Lin Ming) BZ 463

Implemented support for the use of DDBHandles as an Indexed Reference, as per the ACPI spec. (Lin Ming) BZ 486

Implemented support for UserTerm (Method invocation) for the Unload operator as per the ACPI spec. (Lin Ming) BZ 580

Fixed a problem with the LoadTable operator where the OemId and OemTableId input strings could cause unexpected failures if they were shorter than the maximum lengths allowed. (Lin Ming, Bob Moore) BZ 576

Implemented support for UserTerm (Method invocation) for the Unload operator as per the ACPI spec. (Lin Ming) BZ 580

Implemented header file support for new ACPI tables - BERT, ERST, EINJ, HEST, IBFT, UEFI, WDAT. Disassembler support is forthcoming.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

#### Previous Release:

Non-Debug Version: 79.3K Code, 17.2K Data, 96.5K Total

Debug Version: 158.6K Code, 63.8K Data, 222.4K Total

#### Current Release:

Non-Debug Version: 79.5K Code, 17.2K Data, 96.7K Total

Debug Version: 159.0K Code, 63.8K Data, 222.8K Total

## 2) iASL Compiler/Disassembler and Tools:

Implemented support in the disassembler for checksum validation on incoming binary DSDTs and SSDTs. If incorrect, a message is displayed within the table header dump at the start of the disassembly.



Implemented additional debugging information in the namespace listing file created during compilation. In addition to the namespace hierarchy, the full pathname to each namespace object is displayed.

Fixed a problem with the disassembler where invalid ACPI tables could cause faults or infinite loops.

Fixed an unexpected parse error when using the optional "parameter types" list in a control method declaration. (Lin Ming) BZ 397

Fixed a problem where two External declarations with the same name did not cause an error (Lin Ming) BZ 509

Implemented support for full TermArgs (adding Argx, Localx and method invocation) for the ParameterData parameter to the LoadTable operator. (Lin Ming) BZ 583,587

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19 December 2007. Summary of changes for version 20071219:

1) ACPI CA Core Subsystem:

Implemented full support for deferred execution for the TermArg string arguments for DataTableRegion. This enables forward references and full operand resolution for the three string arguments. Similar to OperationRegion deferred argument execution.) Lin Ming. BZ 430

Implemented full argument resolution support for the BankValue argument to BankField. Previously, only constants were supported, now any TermArg may be used. Lin Ming BZ 387, 393

Fixed a problem with AcpiGetDevices where the search of a branch of the device tree could be terminated prematurely. In accordance with the ACPI specification, the search down the current branch is terminated if a device is both not present and not functional (instead of just not present.) Yakui



Zhao.

Fixed a problem where "unknown" GPEs could be allowed to fire repeatedly if the underlying AML code changed the GPE enable registers. Now, any unknown incoming GPE (no \_Lxx/\_Exx method and not the EC GPE) is immediately disabled instead of simply ignored. Rui Zhang.

Fixed a problem with Index Fields where the Index register was incorrectly limited to a maximum of 32 bits. Now any size may be used.

Fixed a couple memory leaks associated with "implicit return" objects when the AML Interpreter slack mode is enabled. Lin Ming BZ 349

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 79.0K Code, 17.2K Data, 96.2K Total

Debug Version: 157.9K Code, 63.6K Data, 221.5K Total

Current Release:

Non-Debug Version: 79.3K Code, 17.2K Data, 96.5K Total

Debug Version: 158.6K Code, 63.8K Data, 222.4K Total

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14 November 2007. Summary of changes for version 20071114:

#### 1) ACPI CA Core Subsystem:

Implemented event counters for each of the Fixed Events, the ACPI SCI (interrupt) itself, and control methods executed. Named AcpiFixedEventCount[], AcpiSciCount, and AcpiMethodCount respectively. These should be useful for debugging and statistics.

Implemented a new external interface, AcpiGetStatistics, to retrieve the contents of the various event counters. Returns the current values for AcpiSciCount, AcpiGpeCount, the AcpiFixedEventCount array, and AcpiMethodCount. The interface can be expanded in the future if new



counters  
are added. Device drivers should use this interface rather than access  
the  
counters directly.

Fixed a problem with the FromBCD and ToBCD operators. With some  
compilers,  
the ShortDivide function worked incorrectly, causing problems with the  
BCD  
functions with large input values. A truncation from 64-bit to 32-bit  
inadvertently occurred. Internal BZ 435. Lin Ming

Fixed a problem with Index references passed as method arguments.  
References  
passed as arguments to control methods were dereferenced immediately  
(before  
control was passed to the called method). The references are now  
correctly  
passed directly to the called method. BZ 5389. Lin Ming

Fixed a problem with CopyObject used in conjunction with the Index  
operator.  
The reference was incorrectly dereferenced before the copy. The reference  
is  
now correctly copied. BZ 5391. Lin Ming

Fixed  
a problem with Control Method references within Package objects.  
These  
references are now correctly generated. This completes the package  
construction overhaul that began in version 20071019.

Example Code and Data Size: These are the sizes for the OS-independent  
apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The  
debug version of the code includes the debug output trace mechanism and  
has  
a much larger code and data size.

#### Previous Release:

Non-Debug Version: 78.8K Code, 17.2K Data, 96.0K Total

Debug Version: 157.2K Code, 63.4K Data, 220.6K Total

#### Current Release:

Non-Debug Version: 79.0K Code, 17.2K Data, 96.2K Total

Debug Version: 157.9K Code, 63.6K Data, 221.5K Total

## 2) iASL Compiler/Disassembler and Tools:



The AcpiExec utility now installs handlers for all of the predefined Operation Region types. New types supported are: PCI\_Config, CMOS, and PCIBARTarget.

Fixed a problem with the 64-bit version of AcpiExec where the extended (64-bit) address fields for the DSDT and FACS within the FADT were not being used, causing truncation of the upper 32-bits of these addresses. Lin Ming and Bob Moore

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19 October 2007. Summary of changes for version 20071019:

1) ACPI CA Core Subsystem:

Fixed a problem with the Alias operator when the target of the alias is a named ASL operator that opens a new scope -- Scope, Device, PowerResource, Processor, and ThermalZone. In these cases, any children of the original operator could not be accessed via the alias, potentially causing unexpected AE\_NOT\_FOUND exceptions. (BZ 9067)

Fixed a problem with the Package operator where all named references were created as object references and left otherwise unresolved. According to the ACPI specification, a Package can only contain Data Objects or references to control methods. The implication is that named references to Data Objects (Integer, Buffer, String, Package, BufferField, Field) should be resolved immediately upon package creation. This is the approach taken with this change. References to all other named objects (Methods, Devices, Scopes, etc.) are all now properly created as reference objects. (BZ 5328)

Reverted a change to Notify handling that was introduced in version 20070508. This version changed the Notify handling from asynchronous to fully synchronous (Device driver Notify handling with respect to the Notify ASL operator). It was found that this change caused more problems than it solved and was removed by most users.

Fixed a problem with the Increment and Decrement operators where the type of the target object could be unexpectedly and incorrectly changed. (BZ 353) Lin Ming.



Fixed a problem with the Load and LoadTable operators where the table location within the namespace was ignored. Instead, the table was always loaded into the root or current scope. Lin Ming.

Fixed a problem with the Load operator when loading a table from a buffer object. The input buffer was prematurely zeroed and/or deleted. (BZ 577)

Fixed a problem with the Debug object where a store of a DdbHandle reference object to the Debug object could cause a fault.

Added a table checksum verification for the Load operator, in the case where the load is from a buffer. (BZ 578).

Implemented additional parameter validation for the LoadTable operator. The length of the input strings SignatureString, OemIdString, and OemTableId are now checked for maximum lengths. (BZ 582) Lin Ming.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 78.5K Code, 17.1K Data, 95.6K Total

Debug Version: 156.7K Code, 63.2K Data, 219.9K Total

Current Release:

Non-Debug Version:

78.8K Code, 17.2K Data, 96.0K Total

Debug Version: 157.2K Code, 63.4K Data, 220.6K Total

2) iASL Compiler/Disassembler:

Fixed a problem where if a single file was specified and the file did not exist, no error message was emitted. (Introduced with wildcard support in version 20070917.)

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19 September 2007. Summary of changes for version 20070919:

1) ACPI CA Core Subsystem:



Designed and implemented new external interfaces to install and remove handlers for ACPI table-related events. Current events that are defined are

LOAD and UNLOAD. These interfaces allow the host to track ACPI tables as they are dynamically loaded and unloaded. See AcpiInstallTableHandler and AcpiRemoveTableHandler. (Lin Ming and Bob Moore)

Fixed a problem where the use of the AcpiGbl\_AllMethodsSerialized flag (acpi\_serialized option on Linux) could cause some systems to hang during initialization. (Bob Moore) BZ 8171

Fixed a problem where objects of certain types (Device, ThermalZone, Processor, PowerResource) can be not found if they are declared and referenced from within the same control method (Lin Ming) BZ 341

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 78.3K Code, 17.0K Data, 95.3K Total

Debug Version: 156.3K Code, 63.1K Data, 219.4K Total

Current Release:

Non-Debug Version: 78.5K Code, 17.1K Data, 95.6K Total

Debug Version: 156.7K Code, 63.2K Data, 219.9K Total

## 2) iASL Compiler/Disassembler:

Implemented support to allow multiple files to be compiled/disassembled in

a

single invocation. This includes command line wildcard support for both the

Windows and Unix versions of the compiler. This feature simplifies the disassembly and compilation

of multiple ACPI tables in a single directory.

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08 May 2007. Summary of changes for version 20070508:

### 1) ACPI CA Core Subsystem:



Implemented a Microsoft compatibility design change for the handling of the Notify AML operator. Previously, notify handlers were dispatched and executed completely asynchronously in a deferred thread. The new design still executes the notify handlers in a different thread, but the original thread that executed the Notify() now waits at a synchronization point for the notify handler to complete. Some machines depend on a synchronous Notify operator in order to operate correctly.

Implemented support to allow Package objects to be passed as method arguments to the external AcpiEvaluateObject interface. Previously, this would return the AE\_NOT\_IMPLEMENTED exception. This feature had not been implemented since there were no reserved control methods that required it until recently.

Fixed a problem with the internal FADT conversion where ACPI 1.0 FADTs that contained invalid non-zero values in reserved fields could cause later failures because these fields have meaning in later revisions of the FADT. For incoming ACPI 1.0 FADTs, these fields are now always zeroed. (The fields are: Preferred\_PM\_Profile, PSTATE\_CNT, CST\_CNT, and IAPC\_BOOT\_FLAGS.)

Fixed a problem where the Global Lock handle was not properly updated if a thread that acquired the Global Lock via executing AML code then attempted to acquire the lock via the AcpiAcquireGlobalLock interface. Reported by Joe Liu.

Fixed a problem in AcpiEvDeleteGpeXrupt where the global interrupt list could be corrupted if the interrupt being removed was at the head of the list. Reported by Linn Crosetto.

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has

a much larger code and data size.

Previous Release:



Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total  
Debug Version: 155.9K Code, 63.1K Data, 219.0K Total  
Current Release:  
Non-Debug Version: 78.3K Code, 17.0K Data, 95.3K Total  
Debug Version: 156.3K Code, 63.1K Data, 219.4K Total

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20 March 2007. Summary of changes for version 20070320:

1) ACPI CA Core Subsystem:

Implemented a change to the order of interpretation and evaluation of AML operand objects within the AML interpreter. The interpreter now evaluates operands in the order that they appear in the AML stream (and the corresponding ASL code), instead of in the reverse order (after the entire operand list has been parsed). The previous behavior caused several subtle incompatibilities with the Microsoft AML interpreter as well as being somewhat non-intuitive. BZ 7871, local BZ 263. Valery Podrezov.

Implemented a change to the ACPI Global Lock support. All interfaces to the global lock now allow the same thread to acquire the lock multiple times. This affects the AcpiAcquireGlobalLock external interface to the global lock as well as the internal use of the global lock to support AML fields -- a control method that is holding the global lock can now simultaneously access AML fields that require global lock protection. Previously, in both cases, this would have resulted in an AE\_ALREADY\_ACQUIRED exception. The change to AcpiAcquireGlobalLock is of special interest to drivers for the Embedded Controller. There is no change to the behavior of the AML Acquire operator, as this can already be used to acquire a mutex multiple times by the same thread. BZ 8066. With assistance from Alexey Starikovskiy.

Fixed a problem where invalid objects could be referenced in the AML Interpreter after error conditions. During operand evaluation, ensure that the internal "Return Object" field is cleared on error and only valid pointers are stored there. Caused occasional access to deleted objects that resulted in "large reference count" warning messages. Valery Podrezov.



Fixed a problem where an AE\_STACK\_OVERFLOW internal exception could occur on deeply nested control method invocations. BZ 7873, local BZ 487. Valery Podrezov.

Fixed an internal problem with the handling of result objects on the interpreter result stack. BZ 7872. Valery Podrezov.

Removed obsolete code that handled the case where AML\_NAME\_OP is the target of a reference (Reference.Opcode). This code was no longer necessary. BZ 7874. Valery Podrezov.

Removed obsolete ACPI\_NO\_INTEGER64\_SUPPORT from two header files. This was a remnant from the previously discontinued 16-bit support.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total

Debug Version: 155.8K Code, 63.3K Data, 219.1K Total

Current Release:

Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total

Debug Version: 155.9K Code, 63.1K Data, 219.0K Total

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26 January 2007. Summary of changes for version 20070126:

1) ACPI CA Core Subsystem:

Added the 2007 copyright to all module headers and signons. This affects virtually every file in the ACPICA core subsystem, the iASL compiler, and the utilities.

Implemented a fix for an incorrect parameter passed to AcpiTbDeleteTable during a table load. A bad pointer was passed in the case where the DSDT is overridden, causing a fault in this case.

Example Code and Data Size: These are the sizes for the OS-independent



acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and

has

a much larger code and data size.

Previous Release:

Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total

Debug Version: 155.8K Code, 63.3K Data, 219.1K Total

Current Release:

Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total

Debug Version: 155.8K Code, 63.3K Data, 219.1K Total

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15 December 2006. Summary of changes for version 20061215:

1) ACPI CA Core Subsystem:

Support for 16-bit ACPICA has been completely removed since it is no longer necessary and it clutters the code. All 16-bit macros, types, and conditional compiles have been removed, cleaning up and simplifying the code across the entire subsystem. DOS support is no longer needed since the bootable Linux firmware kit is now available.

The handler for the Global Lock is now removed during AcpiTerminate to enable a clean subsystem restart, via the implementation of the AcpiEvRemoveGlobalLockHandler function. (With assistance from Joel Bretz, HP)

Implemented enhancements to the multithreading support within the debugger to enable improved multithreading debugging and evaluation of the subsystem. (Valery Podrezov)

Debugger: Enhanced the Statistics/Memory command to emit the total (maximum) memory used during the execution, as well as the maximum memory consumed by each of the various object types. (Valery Podrezov)

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has



a much larger code and data size.

Previous Release:

Non-Debug Version: 77.9K Code, 17.0K Data, 94.9K Total

Debug Version: 155.2K Code, 63.1K Data, 218.3K Total

Current Release:

Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total

Debug Version: 155.8K Code, 63.3K Data, 219.1K Total

2) iASL Compiler/Disassembler and Tools:

AcpiExec: Implemented

a new option (-m) to display full memory use

statistics upon subsystem/program termination. (Valery Podrezov)

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09 November 2006. Summary of changes for version 20061109:

1) ACPI CA Core Subsystem:

Optimized the Load ASL operator in the case where the source operand is an operation region. Simply map the operation region memory, instead of performing a bitwise read. (Region must be of type SystemMemory, see below.)

Fixed the Load ASL operator for the case where the source operand is a region field. A buffer object is also allowed as the source operand. BZ 480

Fixed a problem where the Load ASL operator allowed the source operand to be an operation region of any type. It is now restricted to regions of type SystemMemory, as per the ACPI specification. BZ 481

Additional cleanup and optimizations for the new Table Manager code.

AcpiEnable will now fail if all of the required ACPI tables are not loaded (FADT, FACS, DSDT). BZ 477

Added #pragma pack(8/4) to acobject.h to ensure that the structures in this header are always compiled as aligned. The ACPI\_OPERAND\_OBJECT has been manually optimized to be aligned and will not work if it is byte-packed.



Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 78.1K Code, 17.1K Data, 95.2K Total

Debug Version: 155.4K Code, 63.1K Data, 218.5K Total

Current Release:

Non-Debug Version: 77.9K Code, 17.0K Data, 94.9K Total

Debug Version: 155.2K Code, 63.1K Data, 218.3K Total

2) iASL Compiler/Disassembler and Tools:

Fixed a problem where the presence of the \_OSI predefined control method within complex expressions could cause an internal compiler error.

AcpiExec: Implemented full region support for multiple address spaces.

SpaceId is now part of the REGION object. BZ 429

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11 October 2006. Summary of changes for version 20061011:

1) ACPI CA Core Subsystem:

Completed an AML interpreter performance enhancement for control method execution. Previously a 2-pass parse/execution, control methods are now completely parsed and executed in a single pass. This improves overall interpreter performance by ~25%, reduces code size, and reduces CPU stack use. (Valery Podrezov + interpreter changes in version 20051202 that eliminated namespace loading during the pass one parse.)

Implemented \_CID support for PCI Root Bridge detection. If the \_HID does not match the predefined PCI Root Bridge IDs, the \_CID list (if present) is now obtained and also checked for an ID match.

Implemented additional support for the PCI \_ADR execution: upsearch until a device scope is found before executing \_ADR. This allows PCI\_Config operation regions to be declared locally within control methods underneath PCI device objects.



Fixed a problem with a possible race condition between threads executing AcpiWalkNamespace and the AML interpreter. This condition was removed by modifying AcpiWalkNamespace to (by default) ignore all temporary namespace entries created during any concurrent control method execution. An additional namespace race condition is known to exist between AcpiWalkNamespace and the Load/Unload ASL operators and is still under investigation.

Restructured the AML ParseLoop function, breaking it into several subfunctions in order to reduce CPU stack use and improve maintainability.  
(Mikhail Kouzmich)

AcpiGetHandle: Fix for parameter validation to detect invalid combinations of prefix handle and pathname. BZ 478

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

#### Previous Release:

Non-Debug Version: 77.9K Code, 17.1K Data, 95.0K Total

Debug Version: 154.6K Code, 63.0K Data, 217.6K Total

#### Current Release:

Non-Debug Version: 78.1K Code, 17.1K Data, 95.2K Total

Debug Version: 155.4K Code, 63.1K Data, 218.5K Total

## 2) iASL Compiler/Disassembler and Tools:

Ported the -g option (get local ACPI tables) to the new ACPICA Table Manager to restore original behavior.

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27 September 2006. Summary of changes for version 20060927:

### 1) ACPI CA Core Subsystem:

Removed the "Flags" parameter from AcpiGetRegister and AcpiSetRegister. These functions now use a spinlock for mutual exclusion and the interrupt level indication flag is not needed.



Fixed a problem with the Global Lock where the lock could appear to be obtained before it is actually obtained. The global lock semaphore was inadvertently created with one unit instead of zero units. (BZ 464)  
Fiodor Suietov.

Fixed a possible memory leak and fault in AcpiExResolveObjectToValue during a read from a buffer or region field. (BZ 458) Fiodor Suietov.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 77.9K Code, 17.1K Data, 95.0K Total

Debug Version: 154.7K Code, 63.0K Data, 217.7K Total

Current Release:

Non-Debug Version: 77.9K Code, 17.1K Data, 95.0K Total

Debug Version: 154.6K Code, 63.0K Data, 217.6K Total

## 2) iASL Compiler/Disassembler and Tools:

Fixed a compilation problem with the pre-defined Resource Descriptor field names where an "object does not exist" error could be incorrectly generated if the parent ResourceTemplate pathname places the template within a different namespace scope than the current scope. (BZ 7212)

Fixed a problem where the compiler could hang after syntax errors detected in an ElseIf construct. (BZ 453)

Fixed a problem with the AmlFilename parameter to the DefinitionBlock() operator. An incorrect output filename was produced when this parameter was a null string (""). Now, the original input filename is used as the AML output filename, with an ".aml" extension.

Implemented a generic batch command mode for the AcpiExec utility (execute any AML debugger command) (Valery Podrezov).



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12 September 2006. Summary of changes for version 20060912:

1) ACPI CA Core Subsystem:

Enhanced the implementation of the "serialized mode" of the interpreter (enabled via the `AcpiGbl_AllMethodsSerialized` flag.) When this mode is specified, instead of creating a serialization semaphore per control method, the interpreter lock is simply no longer released before a blocking operation during control method execution. This effectively makes the AML Interpreter single-threaded. The overhead of a semaphore per-method is eliminated.

Fixed a regression where an error was no longer emitted if a control method attempts to create 2 objects of the same name. This once again returns `AE_ALREADY_EXISTS`. When this exception occurs, it invokes the mechanism that will dynamically serialize the control method to possibly prevent future errors. (BZ 440)

Integrated a fix for a problem with PCI Express HID detection in the PCI Config Space setup procedure. (BZ 7145)

Moved all FADT-related functions to a new file, `tbfad.c`. Eliminated the `AcpiHwInitialize` function - the FADT registers are now validated when the table is loaded.

Added two new warnings during FADT verification - 1) if the FADT is larger than the largest known FADT version, and 2) if there is a mismatch between a 32-bit block address and the 64-bit X counterpart (when both are non-zero.)

Example Code and Data

Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 77.9K Code, 16.7K Data, 94.6K Total



Debug Version: 154.9K Code, 62.6K Data, 217.5K Total  
Current Release:  
Non-Debug Version: 77.9K Code, 17.1K Data, 95.0K Total  
Debug Version: 154.7K Code, 63.0K Data, 217.7K Total

## 2) iASL Compiler/Disassembler and Tools:

Fixed a problem with the implementation of the Switch() operator where the temporary variable was declared too close to the actual Switch, instead of at method level. This could cause a problem if the Switch() operator is within a while loop, causing an error on the second iteration. (BZ 460)

Disassembler - fix for error emitted for unknown type for target of scope operator. Now, ignore it and continue.

Disassembly of an FADT  
now verifies the input FADT and reports any errors found. Fix for proper disassembly of full-sized (ACPI 2.0) FADTs.

Disassembly of raw data buffers with byte initialization data now prefixes each output line with the current buffer offset.

Disassembly of ASF! table now includes all variable-length data fields at the end of some of the subtables.

The disassembler now emits a comment if a buffer appears to be a ResourceTemplate, but cannot be disassembled as such because the EndTag does not appear at the very end of the buffer.

AcpiExec - Added the "-t" command line option to enable the serialized mode of the AML interpreter.

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31 August 2006. Summary of changes for version 20060831:

### 1) ACPI CA Core Subsystem:

Miscellaneous fixes for the Table Manager:

- Correctly initialize internal common FADT for all 64-bit "X" fields
- Fixed a couple table mapping issues during table load
- Fixed a couple alignment issues for IA64
- Initialize



input array to zero in AcpiInitializeTables  
- Additional parameter validation for AcpiGetTable, AcpiGetTableHeader, AcpiGetTableByIndex

Change for GPE support: when a "wake" GPE is received, all wake GPEs are now immediately disabled to prevent the waking GPE from firing again and to prevent other wake GPEs from interrupting the wake process.

Added the AcpiGpeCount global that tracks the number of processed GPEs, to be used for debugging systems with a large number of ACPI interrupts.

Implemented support for the "DMAR" ACPI table (DMA Redirection Table) in both the ACPICA headers and the disassembler.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 77.8K Code, 16.5K Data, 94.3K Total

Debug Version: 154.6K Code, 62.3K

Data, 216.9K Total

Current Release:

Non-Debug Version: 77.9K Code, 16.7K Data, 94.6K Total

Debug Version: 154.9K Code, 62.6K Data, 217.5K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler support for the DMAR ACPI table.

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23 August 2006. Summary of changes for version 20060823:

1) ACPI CA Core Subsystem:

The Table Manager component has been completely redesigned and reimplemented. The new design is much simpler, and reduces the overall code and data size of the kernel-resident ACPICA by approximately 5%. Also, it is now possible to obtain the ACPI tables very early during kernel initialization, even before dynamic memory management is initialized.  
(Alexey Starikovskiy, Fiodor Suietov, Bob Moore)



Obsolete ACPICA interfaces:

- AcpiGetFirmwareTable: Use AcpiGetTable instead (works at early kernel init time).
- AcpiLoadTable: Not needed.
- AcpiUnloadTable: Not needed.

New ACPICA interfaces:

- AcpiInitializeTables:  
Must be called before the table manager can be used.
- AcpiReallocateRootTable: Used to transfer the root table to dynamically allocated memory after it becomes available.
- AcpiGetTableByIndex: Allows the host to easily enumerate all ACPI tables in the RSDT/XSDT.

Other ACPICA changes:

- AcpiGetTableHeader returns the actual mapped table header, not a copy. Use AcpiOsUnmapMemory to free this mapping.
- AcpiGetTable returns the actual mapped table. The mapping is managed internally and must not be deleted by the caller. Use of this interface causes no additional dynamic memory allocation.
- AcpiFindRootPointer: Support for physical addressing has been eliminated, it appeared to be unused.
- The interface to AcpiOsMapMemory has changed to be consistent with the other allocation interfaces.
- The interface to AcpiOsGetRootPointer has changed to eliminate unnecessary parameters.
- ACPI\_PHYSICAL\_ADDRESS is now 32 bits on 32-bit platforms, 64 bits on 64-bit platforms.  
Was previously 64 bits on all platforms.
- The interface to the ACPI Global Lock acquire/release macros have changed slightly since ACPICA no longer keeps a local copy of the FACS with a constructed pointer to the actual global lock.

Porting to the new table manager:

- AcpiInitializeTables: Must be called once, and can be called anytime



during the OS initialization process. It allows the host to specify an area of memory to be used to store the internal version of the RSDT/XSDT (root table). This allows the host to access ACPI tables before memory management is initialized and running.

- AcpiReallocateRootTable: Can be called after memory management is running

to copy the root table to a dynamically allocated array, freeing up the scratch memory specified in the call to AcpiInitializeTables.

- AcpiSubsystemInitialize: This existing interface is independent of the Table Manager, and does not have to be called before the Table Manager can

be used, it only must be

called before the rest of ACPICA can be used.

- ACPI Tables: Some changes have been made to the names and structure of the actbl.h and actbl1.h header files and may require changes to existing code.

For example, bitfields have been completely removed because of their lack of

portability across C compilers.

- Update interfaces to the Global Lock acquire/release macros if local versions are used. (see acwin.h)

Obsolete files: tbconvrt.c, tbget.c, tbgetall.c, tbrsdt.c

New files: tbfind.c

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has

a much larger code and data size.

Previous Release:

Non-Debug Version: 80.7K Code, 17.9K Data, 98.6K Total

Debug Version: 161.0K Code, 65.1K Data, 226.1K Total

Current Release:

Non-Debug Version: 77.8K Code, 16.5K Data, 94.3K Total

Debug Version:

154.6K Code, 62.3K Data, 216.9K Total

## 2) iASL Compiler/Disassembler and Tools:

No changes for this release.



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21 July 2006. Summary of changes for version 20060721:

1) ACPI CA Core Subsystem:

The full source code for the ASL test suite used to validate the iASL compiler and the ACPICA core subsystem is being released with the ACPICA source for the first time. The source is contained in a separate package and consists of over 1100 files that exercise all ASL/AML operators. The package should appear on the Intel/ACPI web site shortly. (Valery Podrezov, Fiodor Suietov)

Completed a new design and implementation for support of the ACPI Global Lock. On the OS side, the global lock is now treated as a standard AML mutex. Previously, multiple OS threads could "acquire" the global lock simultaneously. However, this could cause the BIOS to be starved out of the lock - especially in cases such as the Embedded Controller driver where there is a tight coupling between the OS and the BIOS.

Implemented an optimization for the ACPI Global Lock interrupt mechanism. The Global Lock interrupt handler no longer queues the execution of a separate thread to signal the global lock semaphore. Instead, the semaphore is signaled directly from the interrupt handler.

Implemented support within the AML interpreter for package objects that contain a larger AML length (package list length) than the package element count. In this case, the length of the package is truncated to match the package element count. Some BIOS code apparently modifies the package length on the fly, and this change supports this behavior. Provides compatibility with the MS AML interpreter. (With assistance from Fiodor Suietov)

Implemented a temporary fix for the BankValue parameter of a Bank Field to support all constant values, now including the Zero and One opcodes. Evaluation of this parameter must eventually be converted to a full TermArg

evaluation. A not-implemented error is now returned (temporarily) for non-



constant values for this parameter.

Fixed problem reports (Fiodor Suietov) integrated:

- Fix for premature object deletion after CopyObject on Operation Region (BZ 350)

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 80.7K Code, 18.0K Data, 98.7K Total

Debug Version: 160.9K Code, 65.1K Data, 226.0K Total

Current Release:

Non-Debug Version: 80.7K Code, 17.9K Data, 98.6K Total

Debug Version: 161.0K Code, 65.1K Data, 226.1K Total

## 2) iASL Compiler/Disassembler and Tools:

No changes for this release.

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07 July 2006. Summary of changes for version 20060707:

### 1) ACPI CA Core Subsystem:

Added

the `ACPI_PACKED_POINTERS_NOT_SUPPORTED` macro to support C compilers that do not allow the initialization of address pointers within packed structures - even though the hardware itself may support misaligned transfers. Some of the debug data structures are packed by default to minimize size.

Added an error message for the case where `AcpiOsGetThreadId()` returns zero.

A non-zero value is required by the core ACPICA code to ensure the proper operation of AML mutexes and recursive control methods.

The DSDT is now the only ACPI table that determines whether the AML interpreter is in 32-bit or 64-bit mode. Not really a functional change, but

the hooks for per-table 32/64 switching have been removed from the code.

A

clarification to the ACPI specification is forthcoming in ACPI 3.0B.



Fixed a possible leak of an OwnerID in the error path of AcpiTbInitTableDescriptor (tbinstal.c), and migrated all table OwnerID deletion to a single place in AcpiTbUninstallTable to correct possible

leaks

when using the AcpiTbDeleteTablesByType interface (with assistance from Lance Ortiz.)

Fixed a problem with Serialized control methods where the semaphore associated with the method could be over-signaled after multiple method invocations.

Fixed two issues with the locking of the internal namespace data structure.

Both the Unload() operator and AcpiUnloadTable interface now lock the namespace during the namespace deletion associated with the table unload (with assistance from Linn Crosetto.)

Fixed problem reports (Valery Podrezov) integrated:

- Eliminate unnecessary memory allocation for CreateXxxxField (BZ 5426)

Fixed problem reports (Fiodor Suietov) integrated:

- Incomplete cleanup branches in AcpiTbGetTableRsdt (BZ 369)
- On Address Space handler deletion, needless deactivation call (BZ 374)
- AcpiRemoveAddressSpaceHandler: validate Device handle parameter (BZ 375)
- Possible memory leak, Notify sub-objects of Processor, Power, ThermalZone (BZ 376)
- AcpiRemoveAddressSpaceHandler: validate Handler parameter (BZ 378)
- Minimum Length of RSDT should be validated (BZ 379)
- AcpiRemoveNotifyHandler: return AE\_NOT\_EXIST if Processor Obj has no Handler (BZ (380)
- AcpiUnloadTable: return AE\_NOT\_EXIST if no table of specified type loaded (BZ 381)

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 80.5K Code, 17.8K Data, 98.3K Total

Debug Version: 160.8K Code, 64.8K Data, 225.6K Total



Current Release:

Non-Debug Version: 80.7K Code, 17.9K Data, 98.6K Total

Debug Version: 161.0K Code, 65.1K Data, 226.1K Total

2) iASL Compiler/Disassembler and Tools:

Fixed problem reports:

Compiler segfault when ASL contains a long (>1024) String declaration (BZ 436)

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23

June 2006. Summary of changes for version 20060623:

1) ACPI CA Core Subsystem:

Implemented a new ACPI\_SPINLOCK type for the OSL lock interfaces. This allows the type to be customized to the host OS for improved efficiency (since a spinlock is usually a very small object.)

Implemented support for "ignored" bits in the ACPI registers. According to the ACPI specification, these bits should be preserved when writing the registers via a read/modify/write cycle. There are 3 bits preserved in this manner: PM1\_CONTROL[0] (SCI\_EN), PM1\_CONTROL[9], and PM1\_STATUS[11].

Implemented the initial deployment of new OSL mutex interfaces. Since some host operating systems have separate mutex and semaphore objects, this feature was requested. The base code now uses mutexes (and the new mutex interfaces) wherever a binary semaphore was used previously. However, for the current release, the mutex interfaces are defined as macros to map them to the existing semaphore interfaces. Therefore, no OSL changes are required at this time. (See acpiosxf.h)

Fixed several problems with the support for the control method SyncLevel parameter. The SyncLevel now works according to the ACPI specification and in concert with the Mutex SyncLevel parameter, since the current SyncLevel is a property of the executing thread. Mutual exclusion for control methods is now implemented with a mutex instead of a semaphore.



Fixed three instances of the use of the C shift operator in the bitfield support code (exfldio.c) to avoid the use of a shift value larger than the target data width. The behavior of C compilers is undefined in this case and can cause unpredictable results, and therefore the case must be detected and avoided. (Fiodor Suietov)

Added an info message whenever an SSDT or OEM table is loaded dynamically via the Load() or LoadTable() ASL operators. This should improve debugging capability since it will show exactly what tables have been loaded

(beyond the tables present in the RSDT/XSDT.)

Example Code and Data Size: These are the sizes for the OS-independent apica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 80.0K Code, 17.6K Data, 97.6K Total

Debug Version: 160.2K Code, 64.7K Data, 224.9K Total

Current Release:

Non-Debug Version: 80.5K Code, 17.8K Data, 98.3K Total

Debug Version: 160.8K Code, 64.8K Data, 225.6K Total

2) iASL Compiler/Disassembler and Tools:

No changes for this release.

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08 June 2006. Summary of changes for version 20060608:

1) ACPI CA Core Subsystem:

Converted the locking mutex used for the ACPI hardware to a spinlock. This change should eliminate all problems caused by attempting to acquire a semaphore at interrupt level, and it means that all ACPICA external interfaces that directly access the ACPI hardware can be safely called from



interrupt level. OSL code that implements the semaphore interfaces should be able to eliminate any workarounds for being called at interrupt level.

Fixed a regression introduced in 20060526 where the ACPI device initialization could be prematurely aborted with an AE\_NOT\_FOUND if a device did not have an optional \_INI method.

Fixed an IndexField issue where a write to the Data Register should be limited in size to the AccessSize (width) of the IndexField itself. (BZ 433, Fiodor Suietov)

Fixed problem reports (Valery Podrezov) integrated:  
- Allow store of ThermalZone objects to Debug object (BZ 5369/5370)

Fixed problem reports (Fiodor Suietov) integrated:  
- AcpiGetTableHeader doesn't handle multiple instances correctly (BZ 364)

Removed four global mutexes that were obsolete and were no longer being used.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 80.0K Code, 17.7K Data, 97.7K Total

Debug Version: 160.3K Code, 64.9K Data, 225.2K Total

Current Release:

Non-Debug Version: 80.0K Code, 17.6K Data, 97.6K Total

Debug Version: 160.2K Code, 64.7K Data, 224.9K Total

## 2) iASL Compiler/Disassembler and Tools:

Fixed a fault when using -g option (get tables from registry) on Windows machines.

Fixed problem reports integrated:  
- Generate error if CreateField NumBits parameter is zero. (BZ 405)  
- Fault if Offset/Length in Field unit is very large (BZ 432, Fiodor Suietov)  
- Global table revision override (-r) is ignored (BZ 413)



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26 May 2006. Summary of changes for version 20060526:

1) ACPI CA Core Subsystem:

Restructured, flattened, and simplified the internal interfaces for namespace object evaluation - resulting in smaller code, less CPU stack use, and fewer interfaces. (With assistance from Mikhail Kouzmich)

Fixed a problem with the CopyObject operator where the first parameter was not typed correctly for the parser, interpreter, compiler, and disassembler. Caused various errors and unexpected behavior.

Fixed a problem where a ShiftLeft or ShiftRight of more than 64 bits produced incorrect results with some C compilers. Since the behavior of C compilers when the shift value is larger than the datatype width is apparently not well defined, the interpreter now detects this condition and simply returns zero as expected in all such cases. (BZ 395)

Fixed problem reports (Valery Podrezov) integrated:

- Update String-to-Integer conversion to match ACPI 3.0A spec (BZ 5329)
- Allow interpreter to handle nested method declarations (BZ 5361)

Fixed problem reports (Fiodor Suietov) integrated:

- AcpiTerminate doesn't free debug memory allocation list objects (BZ 355)
- After Core Subsystem shutdown, AcpiSubsystemStatus returns AE\_OK (BZ 356)
- AcpiOsUnmapMemory for RSDP can be invoked inconsistently (BZ 357)
- Resource Manager should return AE\_TYPE for non-device objects (BZ 358)
- Incomplete cleanup branch in AcpiNsEvaluateRelative (BZ 359)
- Use AcpiOsFree instead of ACPI\_FREE in AcpiRsSetSrsMethodData (BZ 360)
- Incomplete cleanup branch in AcpiPsParseAml (BZ 361)
- Incomplete cleanup branch in AcpiDsDeleteWalkState (BZ 362)
- AcpiGetTableHeader returns AE\_NO\_ACPI\_TABLES until DSDT is loaded (BZ 365)
- Status of the Global Initialization Handler call not used (BZ 366)
- Incorrect object parameter to Global Initialization Handler (BZ 367)

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The



debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous

Release:

Non-Debug Version: 79.8K Code, 17.7K Data, 97.5K Total

Debug Version: 160.5K Code, 65.1K Data, 225.6K Total

Current Release:

Non-Debug Version: 80.0K Code, 17.7K Data, 97.7K Total

Debug Version: 160.3K Code, 64.9K Data, 225.2K Total

## 2) iASL Compiler/Disassembler and Tools:

Modified the parser to allow the names IO, DMA, and IRQ to be used as namespace identifiers with no collision with existing resource descriptor macro names. This provides compatibility with other ASL compilers and is most useful for disassembly/recompilation of existing tables without parse errors. (With assistance from Thomas Renninger)

Disassembler: fixed an incorrect disassembly problem with the DataTableRegion and CopyObject operators. Fixed a possible fault during disassembly of some Alias operators.

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12 May 2006. Summary of changes for version 20060512:

### 1) ACPI CA Core Subsystem:

Replaced the AcpiOsQueueForExecution interface with a new interface named AcpiOsExecute. The major difference is that the new interface does not have a Priority parameter, this appeared to be useless and has been replaced by a Type parameter. The Type tells the host what type of execution is being requested, such as global lock handler, notify handler, GPE handler, etc. This allows the host to queue and execute the request as appropriate for the request type, possibly using different work queues and different priorities for the various request types. This enables fixes for multithreading deadlock problems such as BZ #5534, and will require changes to all existing OS interface layers. (Alexey Starikovskiy and Bob Moore)



Fixed a possible memory leak associated with the support for the so-called "implicit return" ACPI extension. Reported by FreeBSD, BZ #6514. (Fiodor Suietov)

Fixed a problem with the Load() operator where a table load from an operation region could overwrite an internal table buffer by up to 7 bytes and cause alignment faults on IPF systems. (With assistance from Luming Yu)

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 79.7K Code, 17.7K Data, 97.4K Total

Debug Version: 160.1K Code, 65.2K Data, 225.3K Total

Current Release:

Non-Debug Version: 79.8K Code, 17.7K Data, 97.5K Total

Debug Version: 160.5K Code, 65.1K Data, 225.6K Total

## 2) iASL Compiler/Disassembler and Tools:

Disassembler: Implemented support to cross reference the internal namespace and automatically generate ASL External() statements for symbols not defined within the current table being disassembled. This will simplify the disassembly and recompilation of interdependent tables such as SSDTs since these statements will no longer have to be added manually.

Disassembler: Implemented experimental support to automatically detect invocations of external control methods and generate appropriate External() statements. This is problematic because the AML cannot be correctly parsed until the number of arguments for each control method is known. Currently, standalone method invocations and invocations as the source operand of a



Store() statement are supported.

Disassembler: Implemented support for the ASL pseudo-operators LNotEqual, LLessEqual, and LGreaterEqual. Previously disassembled as LNot(LEqual()), LNot(LGreater()), and LNot(LLess()), this makes the disassembled ASL code more readable and likely closer to the original ASL source.

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21 April 2006. Summary of changes for version 20060421:

1) ACPI CA Core Subsystem:

Removed a device initialization optimization introduced in 20051216 where the \_STA method was not run unless an \_INI was also present for the same device. This optimization could cause problems because it could allow \_INI methods to be run within a not-present device subtree. (If a not-present device had no \_INI, \_STA would not be run, the not-present status would not be discovered, and the children of the device would be incorrectly traversed.)

Implemented a new \_STA optimization where namespace subtrees that do not contain \_INI are identified and ignored during device initialization. Selectively running \_STA can significantly improve boot time on large machines (with assistance from Len Brown.)

Implemented support for the device initialization case where the returned \_STA flags indicate a device not-present but functioning. In this case, \_INI is not run, but the device children are examined for presence, as per the ACPI specification.

Implemented an additional change to the IndexField support in order to conform to MS behavior. The value written to the Index Register is not simply a byte offset, it is a byte offset in units of the access width of the parent Index Field. (Fiodor Suietov)

Defined and deployed a new OSL interface, AcpiOsValidateAddress. This interface is called during the creation of all AML operation regions, and allows the host OS to exert control over what addresses it will allow the AML code to access. Operation Regions whose addresses are disallowed will cause a runtime exception when they are actually accessed (will not affect or abort table loading.) See oswinxf or osunixxf for an example implementation.



Defined and deployed a new OSL interface, `AcpiOsValidateInterface`. This interface allows the host OS to match the various "optional" interface/behavior strings for the `_OSI` predefined control method as appropriate (with assistance from Bjorn Helgaas.) See `oswinxf` or `osunixxf` for an example implementation.

Restructured and corrected various problems in the exception handling code paths within `DsCallControlMethod` and `DsTerminateControlMethod` in `dsmethod` (with assistance from Takayoshi Kochi.)

Modified the Linux source converter to ignore quoted string literals while converting identifiers from mixed to lower case. This will correct problems with the disassembler and other areas where such strings must not be modified.

The `ACPI_FUNCTION_*` macros no longer require quotes around the function name. This allows the Linux source converter to convert the names, now that the converter ignores quoted strings.

Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 81.1K Code, 17.7K Data, 98.8K Total

Debug Version: 158.9K Code, 64.9K Data, 223.8K Total

Current Release:

Non-Debug Version: 79.7K Code, 17.7K Data, 97.4K Total

Debug Version: 160.1K Code,  
65.2K Data, 225.3K Total

## 2) iASL Compiler/Disassembler and Tools:

Implemented 3 new warnings for iASL, and implemented multiple warning levels (w2 flag).

1) Ignored timeouts: If the `TimeoutValue` parameter to `Wait` or `Acquire` is



not

WAIT\_FOREVER (0xFFFF) and the code does not examine the return value to check for the possible timeout, a warning is issued.

2) Useless operators: If an ASL operator does not specify an optional target operand and it also does not use the function return value from the operator, a warning is issued since the operator effectively does nothing.

3) Unreferenced objects: If a namespace object is created, but never referenced, a warning is issued. This is a warning level 2 since there are cases where this is ok, such as when a secondary table is loaded that uses the unreferenced objects. Even so, care is taken to only flag objects that don't look like they will ever be used. For example, the reserved methods (starting with an underscore) are usually not referenced because it is expected that the OS will invoke them.

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31 March 2006. Summary of changes for version 20060331:

#### 1) ACPI CA Core Subsystem:

Implemented header file support for the following additional ACPI tables: ASF!, BOOT, CPEP, DDBG, MCFG, SPCR, SPML, TCPA, and WDRT. With this support, all current and known ACPI tables are now defined in the ACPICA headers and are available for use by device drivers and other software.

Implemented support to allow tables that contain ACPI names with invalid characters to be loaded. Previously, this would cause the table load to fail, but since there are several known cases of such tables on existing machines, this change was made to enable ACPI support for them. Also, this matches the behavior of the Microsoft ACPI implementation.

Fixed a couple regressions introduced during the memory optimization in the 20060317 release. The namespace node definition required additional reorganization and an internal datatype that had been changed to 8-bit was restored to 32-bit. (Valery Podrezov)



Fixed a problem where a null pointer passed to `AcpiUtDeleteGenericState` could be passed through to `AcpiOsReleaseObject` which is unexpected. Such null pointers are now trapped and ignored, matching the behavior of the previous implementation before the deployment of `AcpiOsReleaseObject`.  
(Valery Podrezov, Fiodor Suietov)

Fixed a memory mapping leak during the deletion of a `SystemMemory` operation region where a cached memory mapping was not deleted. This became a noticeable problem for operation regions that are defined within frequently used control methods. (Dana Meyers)

Reorganized the ACPI table header files into two main files: one for the ACPI tables consumed by the ACPICA core, and another for the miscellaneous ACPI tables that are consumed by the drivers and other software. The various FADT definitions were merged into one common section and three different tables (ACPI 1.0, 1.0+, and 2.0)

Example Code and Data Size: These are the sizes for the OS-independent `acpica.lib` produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:

Non-Debug Version: 80.9K Code, 17.7K Data, 98.6K Total

Debug Version: 158.7K Code, 64.8K Data, 223.5K Total

Current Release:

Non-Debug Version: 81.1K Code, 17.7K Data, 98.8K Total

Debug Version: 158.9K Code, 64.9K Data, 223.8K Total

## 2) iASL Compiler/Disassembler and Tools:

Disassembler: Implemented support to decode and format all non-AML ACPI tables (tables other than DSDTs and SSDTs.) This includes the new tables added to the ACPICA headers, therefore all current and known ACPI tables are supported.

Disassembler: The change to allow ACPI names with invalid characters also enables the disassembly of such tables. Invalid characters



within names  
are  
changed to '\*' to make the name printable; the iASL compiler will still  
generate an error for such names, however, since this is an invalid ACPI  
character.

Implemented an option for AcpiXtract (-a) to extract all tables found in  
the  
input file. The default invocation extracts only the DSDTs and SSDTs.

Fixed a couple of gcc generation issues for iASL and AcpiExec and added a  
makefile for the AcpiXtract utility.

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17 March 2006. Summary of changes for version 20060317:

1) ACPI CA Core Subsystem:

Implemented the use of a cache object for all internal namespace nodes.  
Since there are about 1000 static nodes in a typical system, this will  
decrease memory use for cache implementations that minimize per-  
allocation  
overhead (such as a slab allocator.)

Removed the reference count mechanism for internal namespace nodes, since  
it  
was deemed unnecessary. This reduces the size of each namespace node by  
about 5%-10% on all  
platforms. Nodes are now 20 bytes for the 32-bit  
case,  
and 32 bytes for the 64-bit case.

Optimized several internal data structures to reduce object size on 64-  
bit  
platforms by packing data within the 64-bit alignment. This includes the  
frequently used ACPI\_OPERAND\_OBJECT, of which there can be ~1000 static  
instances corresponding to the namespace objects.

Added two new strings for the predefined \_OSI method: "Windows 2001.1  
SP1"  
and "Windows 2006".

Split the allocation tracking mechanism out to a separate file, from  
utalloc.c to uttrack.c. This mechanism appears to be only useful for  
application-level code. Kernels may wish to not include uttrack.c in  
distributions.

Removed all remnants of the obsolete ACPI\_REPORT\_\* macros and the



associated

code. (These macros have been replaced by the `ACPI_ERROR` and `ACPI_WARNING` macros.)

Code and Data Size: These are the sizes for the `acpica.lib` produced by the

Microsoft Visual C++ 6.0 32-bit compiler. The values do not include any

ACPI

driver or OSPM code. The debug version of the code includes the debug output

trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 81.1K Code, 17.8K Data, 98.9K Total

Debug Version: 161.6K Code, 65.7K Data, 227.3K Total

Current Release:

Non-Debug Version: 80.9K Code, 17.7K Data, 98.6K Total

Debug Version: 158.7K Code, 64.8K Data, 223.5K Total

## 2) iASL Compiler/Disassembler and Tools:

Implemented an ANSI C version of the `acpixtract` utility. This version will

automatically extract the DSDT and all SSDTs from the input `acpidump` text file and dump the binary output to separate files. It can also display a summary of the input file including the headers for each table found and will extract any single ACPI table, with any signature. (See `source/tools/acpixtract`)

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10

March 2006. Summary of changes for version 20060310:

### 1) ACPI CA Core Subsystem:

Tagged all external interfaces to the subsystem with the new `ACPI_EXPORT_SYMBOL` macro. This macro can be defined as necessary to assist

kernel integration. For Linux, the macro resolves to the `EXPORT_SYMBOL` macro. The default definition is `NULL`.

Added the `ACPI_THREAD_ID` type for the return value from `AcpiOsGetThreadId`.

This allows the host to define this as necessary to simplify kernel



integration. The default definition is ACPI\_NATIVE\_UINT.

Fixed two interpreter problems related to error processing, the deletion of objects, and placing invalid pointers onto the internal operator result stack. BZ 6028, 6151 (Valery Podrezov)

Increased the reference count threshold where a warning is emitted for large reference counts in order to eliminate unnecessary warnings on systems with large namespaces (especially 64-bit.) Increased the value from 0x400 to 0x800.

Due to universal disagreement as to the meaning of the 'c' in the calloc() function, the ACPI\_MEM\_CALLOCATE macro has been renamed to ACPI\_ALLOCATE\_ZEROED so that the purpose of the interface is 'clear'. ACPI\_MEM\_ALLOCATE and ACPI\_MEM\_FREE are renamed to ACPI\_ALLOCATE and ACPI\_FREE.

Code and Data Size: These are the sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 81.0K Code, 17.8K Data, 98.8K Total

Debug Version: 161.4K Code, 65.7K Data, 227.1K Total

Current Release:

Non-Debug Version: 81.1K Code, 17.8K Data, 98.9K Total

Debug Version: 161.6K Code, 65.7K Data, 227.3K Total

2)

iASL Compiler/Disassembler:

Disassembler: implemented support for symbolic resource descriptor references. If a CreateXxxxField operator references a fixed offset within a resource descriptor, a name is assigned to the descriptor and the offset



is

translated to the appropriate resource tag and pathname. The addition of this support brings the disassembled code very close to the original ASL source code and helps eliminate run-time errors when the disassembled code

is modified (and recompiled) in such a way as to invalidate the original fixed offsets.

Implemented support for a Descriptor Name as the last parameter to the ASL

Register() macro. This parameter was inadvertently left out of the ACPI specification, and will be added for ACPI 3.0b.

Fixed a problem where the use of the "\_OSI" string (versus the full path "\_\OSI") caused an internal compiler error. ("No back ptr to op")

Fixed a problem with the error message that occurs when an invalid string is

used for

a \_HID object (such as one with an embedded asterisk: "\*PNP010A".)

The correct message is now displayed.

-----

17 February 2006. Summary of changes for version 20060217:

#### 1) ACPI CA Core Subsystem:

Implemented a change to the IndexField support to match the behavior of the

Microsoft AML interpreter. The value written to the Index register is now a

byte offset, no longer an index based upon the width of the Data register.

This should fix IndexField problems seen on some machines where the Data register is not exactly one byte wide. The ACPI specification will be clarified on this point.

Fixed a problem where several resource descriptor types could overrun the internal descriptor buffer due to size miscalculation: VendorShort, VendorLong, and Interrupt. This was noticed on IA64 machines, but could affect all platforms.

Fixed a problem where individual resource descriptors were misaligned within

the internal buffer, causing alignment faults on IA64 platforms.



Code and Data Size: These are the sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 81.1K Code, 17.8K Data, 98.9K Total

Debug Version: 161.3K Code, 65.6K Data, 226.9K Total

Current Release:

Non-Debug Version: 81.0K Code, 17.8K Data, 98.8K Total

Debug Version: 161.4K Code, 65.7K Data, 227.1K Total

2) iASL Compiler/Disassembler:

Implemented support for new reserved names: \_WDG and \_WED are Microsoft extensions for Windows Instrumentation Management, \_TDL is a new ACPI-defined method (Throttling Depth Limit.)

Fixed a problem where a zero-length VendorShort or VendorLong resource descriptor was incorrectly emitted as a descriptor of length one.

-----  
10 February 2006. Summary of changes for version 20060210:

1) ACPI CA Core Subsystem:

Removed a couple of extraneous ACPI\_ERROR messages that appeared during normal execution. These became apparent after the conversion from ACPI\_DEBUG\_PRINT.

Fixed a problem where the CreateField operator could hang if the BitIndex or NumBits parameter referred to a named object. (Valery Podrezov, BZ 5359)

Fixed a problem where a DeRefOf operation on a buffer object incorrectly failed with an exception. This also fixes a couple of related RefOf and DeRefOf issues. (Valery Podrezov, BZ 5360/5392/5387)

Fixed a problem where the AE\_BUFFER\_LIMIT exception was returned instead of AE\_STRING\_LIMIT on an out-of-bounds Index() operation. (Valery Podrezov,



BZ  
5480)

Implemented a memory cleanup at the end of the execution of each iteration of an AML While() loop, preventing the accumulation of outstanding objects.  
(Valery Podrezov, BZ 5427)

Eliminated a chunk of duplicate code in the object resolution code.  
(Valery Podrezov, BZ 5336)

Fixed several warnings during the 64-bit code generation.

The AcpiSrc source code conversion tool now inserts one line of whitespace after an if() statement that is followed immediately by a comment, improving readability of the Linux code.

Code and Data Size: The current and previous library sizes for the core subsystem are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. These values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 81.0K Code, 17.9K  
Data, 98.9K Total

Debug Version: 161.3K Code, 65.7K Data, 227.0K Total

Current Release:

Non-Debug Version: 81.1K Code, 17.8K Data, 98.9K Total

Debug Version: 161.3K Code, 65.6K Data, 226.9K Total

2) iASL Compiler/Disassembler:

Fixed a problem with the disassembly of a BankField operator with a complex expression for the BankValue parameter.



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27 January 2006. Summary of changes for version 20060127:

1) ACPI CA Core Subsystem:

Implemented support in the Resource Manager to allow unresolved namestring references within resource package objects for the \_PRT method. This support is in addition to the previously implemented unresolved reference support within the AML parser. If the interpreter slack mode is enabled, these unresolved references will be passed through to the caller as a NULL package entry.

Implemented and deployed new macros and functions for error and warning messages across the subsystem.

These macros are simpler and generate less code than their predecessors. The new macros ACPI\_ERROR, ACPI\_EXCEPTION, ACPI\_WARNING, and ACPI\_INFO replace the ACPI\_REPORT\_\* macros. The older macros remain defined to allow ACPI drivers time to migrate to the new macros.

Implemented the ACPI\_CPU\_FLAGS type to simplify host OS integration of the Acquire/Release Lock OSL interfaces.

Fixed a problem where Alias ASL operators are sometimes not correctly resolved, in both the interpreter and the iASL compiler.

Fixed several problems with the implementation of the ConcatenateResTemplate ASL operator. As per the ACPI specification, zero length buffers are now treated as a single EndTag. One-length buffers always cause a fatal exception. Non-zero length buffers that do not end with a full 2-byte EndTag cause a fatal exception.

Fixed a possible structure overwrite in the AcpiGetObjectInfo external interface. (With assistance from Thomas Renninger)

Code and Data Size: The current and previous library sizes for the core subsystem are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. These values do not include any ACPI driver or OSPM code. The debug version of the



code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 83.1K Code, 18.4K Data, 101.5K Total

Debug Version: 163.2K Code, 66.2K Data, 229.4K Total

Current Release:

Non-Debug Version: 81.0K Code, 17.9K Data, 98.9K Total

Debug Version: 161.3K Code, 65.7K Data, 227.0K Total

2) iASL Compiler/Disassembler:

Fixed an internal error that was generated for any forward references to ASL

Alias objects.

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13 January 2006. Summary of changes for version 20060113:

1)

ACPI CA Core Subsystem:

Added 2006 copyright to all module headers and signons. This affects virtually every file in the ACPICA core subsystem, iASL compiler, and the utilities.

Enhanced the ACPICA error reporting in order to simplify user migration to the non-debug version of ACPICA. Replaced all instances of the ACPI\_DEBUG\_PRINT macro invoked at the ACPI\_DB\_ERROR and ACPI\_DB\_WARN debug levels with the ACPI\_REPORT\_ERROR and ACPI\_REPORT\_WARNING macros, respectively. This preserves all error and warning messages in the non-debug version of the ACPICA code (this has been referred to as the "debug lite" option.) Over 200 cases were converted to create a total of over 380 error/warning messages across the ACPICA code. This increases the code and data size of the default non-debug version of the code somewhat (about 13K), but all error/warning reporting may be disabled if desired (and code eliminated) by specifying the ACPI\_NO\_ERROR\_MESSAGES compile-time configuration option. The size of the debug version of ACPICA remains about



the same.

Fixed a memory leak within the AML Debugger "Set" command. One object was not properly deleted for every successful invocation of the command.

Code and Data Size: The current and previous library sizes for the core subsystem are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.

These

values do not include any ACPI driver or OSPM code. The debug version of the

code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency

of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 76.6K Code, 12.3K Data, 88.9K Total

Debug Version: 163.7K Code, 67.5K Data, 231.2K Total

Current Release:

Non-Debug Version: 83.1K Code, 18.4K Data, 101.5K Total

Debug Version: 163.2K Code, 66.2K

Data, 229.4K Total

## 2) iASL Compiler/Disassembler:

The compiler now officially supports the ACPI 3.0a specification that was released on December 30, 2005. (Specification is available at [www.acpi.info](http://www.acpi.info))

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16 December 2005. Summary of changes for version 20051216:

### 1) ACPI CA Core Subsystem:

Implemented optional support to allow unresolved names within ASL Package objects. A null object is inserted in the package when a named reference cannot be located in the current namespace. Enabled via the interpreter slack flag, this should eliminate AE\_NOT\_FOUND exceptions seen on machines that contain such code.

Implemented an optimization to the initialization sequence that can improve boot time. During ACPI device initialization, the \_STA method is now run if and only if the \_INI method exists. The \_STA method is used to determine



if  
the device is present; An \_INI can only be run if \_STA returns present,  
but  
it is a waste of time to run  
the \_STA method if the \_INI does not exist.  
(Prototype and assistance from Dong Wei)

Implemented use of the C99 uintptr\_t for the pointer casting macros if it  
is  
available in the current compiler. Otherwise, the default (void \*) cast  
is  
used as before.

Fixed some possible memory leaks found within the execution path of the  
Break, Continue, If, and CreateField operators. (Valery Podrezov)

Fixed a problem introduced in the 20051202 release where an exception is  
generated during method execution if a control method attempts to declare  
another method.

Moved resource descriptor string constants that are used by both the AML  
disassembler and AML debugger to the common utilities directory so that  
these components are independent.

Implemented support in the AcpiExec utility (-e switch) to globally  
ignore  
exceptions during control method execution (method is not aborted.)

Added the rsinfo.c source file to the AcpiExec makefile for Linux/Unix  
generation.

#### Code and Data Size:

The current and previous library sizes for the core  
subsystem are shown below. These are the code and data sizes for the  
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.  
These  
values do not include any ACPI driver or OSPM code. The debug version of  
the  
code includes the debug output trace mechanism and has a much larger code  
and data size. Note that these values will vary depending on the  
efficiency  
of the compiler and the compiler options used during generation.

#### Previous Release:

Non-Debug Version: 76.3K Code, 12.3K Data, 88.6K Total

Debug Version: 163.2K Code, 67.4K Data, 230.6K Total

#### Current Release:

Non-Debug Version: 76.6K Code, 12.3K Data, 88.9K Total



Debug Version: 163.7K Code, 67.5K Data, 231.2K Total

## 2) iASL Compiler/Disassembler:

Fixed a problem where a CPU stack overflow fault could occur if a recursive method call was made from within a Return statement.

-----  
02 December

2005. Summary of changes for version 20051202:

### 1) ACPI CA Core Subsystem:

Modified the parsing of control methods to no longer create namespace objects during the first pass of the parse. Objects are now created only during the execute phase, at the moment the namespace creation operator is

encountered in the AML (Name, OperationRegion, CreateByteField, etc.)

This

should eliminate ALREADY\_EXISTS exceptions seen on some machines where reentrant control methods are protected by an AML mutex. The mutex will now

correctly block multiple threads from attempting to create the same object more than once.

Increased the number of available Owner Ids for namespace object tracking from 32 to 255. This should eliminate the OWNER\_ID\_LIMIT exceptions seen on

some machines with a large number of ACPI tables (either static or dynamic).

Fixed a problem with the AcpiExec utility where a fault could occur when the

-b switch (batch mode) is used.

Enhanced the namespace dump routine to output the owner ID for each namespace object.

Code and Data Size: The current and previous library sizes for the core subsystem are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.

These

values do not include any ACPI driver or OSPM code. The debug version of the



code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 76.3K Code, 12.3K Data, 88.6K Total

Debug Version: 163.0K Code, 67.4K Data, 230.4K Total

Current Release:

Non-Debug Version: 76.3K Code, 12.3K Data, 88.6K Total

Debug Version: 163.2K Code, 67.4K Data, 230.6K Total

2) iASL Compiler/Disassembler:

Fixed a parse error during compilation of certain Switch/Case constructs.

To

simplify the parse, the grammar now

allows for multiple Default

statements

and this error is now detected and flagged during the analysis phase.

Disassembler: The disassembly now includes the contents of the original table header within a comment at the start of the file. This includes the name and version of the original ASL compiler.

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17 November 2005. Summary of changes for version 20051117:

1) ACPI CA Core Subsystem:

Fixed a problem in the AML parser where the method thread count could be decremented below zero if any errors occurred during the method parse phase.

This should eliminate AE\_AML\_METHOD\_LIMIT exceptions seen on some machines.

This also fixed a related regression with the mechanism that detects and corrects methods that cannot properly handle reentrancy (related to the deployment of the new OwnerId mechanism.)

Eliminated the pre-parsing of control methods (to detect errors) during table load. Related to the problem above, this was causing unwind issues

if

any errors occurred during the parse, and it seemed to be overkill. A table

load should not be aborted if there are problems with any single control method, thus rendering this feature rather pointless.



Fixed a problem with the new table-driven resource manager where an internal buffer overflow could occur for small resource templates.

Implemented a new external interface, `AcpiGetVendorResource`. This interface will find and return a vendor-defined resource descriptor within a `_CRS` or `_PRS` method via an ACPI 3.0 UUID match. With assistance from Bjorn Helgaas.

Removed the length limit (200) on string objects as per the upcoming ACPI 3.0A specification. This affects the following areas of the interpreter:

1) any implicit conversion of a Buffer to a String, 2) a String object result of the ASL Concatenate operator, 3) the String object result of the ASL ToString operator.

Fixed a problem in the Windows OS interface layer (OSL) where a `WAIT_FOREVER` on a semaphore object would incorrectly timeout. This allows the multithreading features of the `AcpiExec` utility to work properly under Windows.

Updated the Linux makefiles for the iASL compiler and `AcpiExec` to include the recently added file named "utresrc.c".

Code and Data Size: The current and previous library sizes for the core subsystem are shown below. These are the code and data sizes for the `acpica.lib` produced by the Microsoft Visual C++ 6.0 32-bit compiler.

These values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 76.2K Code, 12.3K Data, 88.5K Total

Debug Version: 163.0K Code, 67.4K Data, 230.4K Total

Current Release:

Non-Debug Version: 76.3K Code, 12.3K Data, 88.6K Total



Debug Version: 163.0K Code, 67.4K Data, 230.4K Total

## 2) iASL Compiler/Disassembler:

Removed the limit (200) on string objects as per the upcoming ACPI 3.0A specification. For the iASL compiler, this means that string literals within the source ASL can be of any length.

Enhanced the listing output to dump the AML code for resource descriptors immediately after the ASL code for each descriptor, instead of in a block at the end of the entire resource template.

Enhanced the compiler debug output to dump the entire original parse tree constructed during the parse phase, before any transforms are applied to the tree. The transformed tree is dumped also.

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02 November 2005. Summary of changes for version 20051102:

## 1) ACPI CA Core Subsystem:

Modified the subsystem initialization sequence to improve GPE support. The GPE initialization has been split into two parts in order to defer execution of the \_PRW methods (Power Resources for Wake) until after the hardware is fully initialized and the SCI handler is installed. This allows the \_PRW methods to access fields protected by the Global Lock. This will fix systems where a NO\_GLOBAL\_LOCK exception has been seen during initialization.

Converted the ACPI internal object disassemble and display code within the AML debugger to fully table-driven operation, reducing code size and increasing maintainability.

Fixed a regression with the ConcatenateResTemplate() ASL operator introduced in the 20051021 release.

Implemented support for "local" internal ACPI object types within the debugger "Object" command and the AcpiWalkNamespace external interfaces.



These local types include RegionFields, BankFields, IndexFields, Alias, and reference objects.

Moved common AML resource handling code into a new file, "utresrc.c". This code is shared by both the Resource Manager and the AML Debugger.

Code and Data Size: The current and previous library sizes for the core

subsystem are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.

These values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 76.1K Code, 12.2K Data, 88.3K Total

Debug Version: 163.5K Code, 67.0K Data, 230.5K Total

Current Release:

Non-Debug Version: 76.2K Code, 12.3K Data, 88.5K Total

Debug Version: 163.0K Code, 67.4K Data, 230.4K Total

## 2) iASL Compiler/Disassembler:

Fixed a problem with very large initializer lists (more than 4000 elements) for both Buffer and Package objects where the parse stack could overflow.

Enhanced the pre-compile source code scan for non-ASCII characters to ignore characters within comment fields. The scan is now always performed and is no longer optional, detecting invalid characters within a source file immediately rather than during the parse phase or later.

Enhanced the ASL grammar definition to force early reductions on all list-style grammar elements so that the overall parse stack usage is greatly reduced. This should improve performance and reduce the possibility of parse stack overflow.



Eliminated all reduce/reduce conflicts in the iASL parser generation.

Also,

with the addition of a %expected statement, the compiler generates from source with no warnings.

Fixed a possible segment fault in the disassembler if the input filename does not contain a ".dot" extension (Thomas Renninger).

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21 October 2005. Summary of changes for version 20051021:

#### 1) ACPI CA Core Subsystem:

Implemented support for the EM64T and other x86-64 processors. This essentially entails recognizing that these processors support non-aligned memory transfers. Previously, all 64-bit processors were assumed to lack hardware support for non-aligned transfers.

Completed conversion of the Resource Manager to nearly full table-driven operation. Specifically, the resource conversion code (convert AML to internal format and the reverse) and the debug code to dump internal resource descriptors are fully table-driven, reducing code and data size and improving maintainability.

The OSL interfaces for Acquire and Release Lock now use a 64-bit flag word on 64-bit processors instead of a fixed 32-bit word. (With assistance from Alexey Starikovskiy)

Implemented support within the resource conversion code for the Type-Specific byte within the various ACPI 3.0 \*WordSpace macros.

Fixed some issues within the resource conversion code for the type-specific flags for both Memory and I/O address resource descriptors. For Memory, implemented support for the MTP and TTP flags. For I/O, split the TRS and TTP flags into two separate fields.

Code and Data Size: The current and previous library sizes for the core subsystem are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. These values do not include any ACPI driver or OSPM code. The debug version of



the  
code includes the debug output trace mechanism and has a much larger code  
and data size. Note that these values will vary depending on the  
efficiency  
of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 77.1K Code, 12.1K Data, 89.2K Total

Debug Version: 168.0K Code, 68.3K Data, 236.3K Total

Current Release:

Non-Debug Version: 76.1K Code, 12.2K Data, 88.3K Total

Debug Version: 163.5K Code, 67.0K Data, 230.5K Total

2) iASL Compiler/Disassembler:

Relaxed a compiler restriction that disallowed a ResourceIndex byte if  
the  
corresponding ResourceSource string was not also  
present in a resource  
descriptor declaration. This restriction caused problems with existing  
AML/ASL code that includes the Index byte without the string. When such  
AML  
was disassembled, it could not be compiled without modification. Further,  
the modified code created a resource template with a different size than  
the  
original, breaking code that used fixed offsets into the resource  
template  
buffer.

Removed a recent feature of the disassembler to ignore a lone  
ResourceIndex  
byte. This byte is now emitted if present so that the exact AML can be  
reproduced when the disassembled code is recompiled.

Improved comments and text alignment for the resource descriptor code  
emitted by the disassembler.

Implemented disassembler support for the ACPI 3.0 AccessSize field within  
a  
Register() resource descriptor.

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30 September 2005. Summary of changes for version 20050930:

1) ACPI CA Core Subsystem:



Completed a major overhaul of the Resource Manager code - specifically, optimizations in the area of the AML/internal resource conversion code. The code has been optimized to simplify and eliminate duplicated code, CPU stack use has been decreased by optimizing function parameters and local variables, and naming conventions across the manager have been standardized for clarity and ease of maintenance (this includes function, parameter, variable, and struct/typedef names.) The update may force changes in some driver code, depending on how resources are handled by the host OS.

All Resource Manager dispatch and information tables have been moved to a single location for clarity and ease of maintenance. One new file was created, named "rsinfo.c".

The ACPI return macros (return\_ACPI\_STATUS, etc.) have been modified to guarantee that the argument is not evaluated twice, making them less prone to macro side-effects. However, since there exists the possibility of additional stack use if a particular compiler cannot optimize them (such as in the debug generation case), the original macros are optionally available. Note that some invocations of the return\_VALUE macro may now cause size mismatch warnings; the return\_UINT8 and return\_UINT32 macros are provided to eliminate these. (From Randy Dunlap)

Implemented a new mechanism to enable debug tracing for individual control methods. A new external interface, AcpiDebugTrace, is provided to enable this mechanism. The intent is to allow the host OS to easily enable and disable tracing for problematic control methods. This interface can be easily exposed to a user or debugger interface if desired. See the file psxface.c for details.

AcpiUtCallocate will now return a valid pointer if a length of zero is specified - a length of one is used and a warning is issued. This matches the behavior of AcpiUtAllocate.

Code and Data Size: The current and previous library sizes for the core subsystem are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. These



values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 77.5K Code, 12.0K Data, 89.5K Total

Debug Version: 168.1K Code, 68.4K Data, 236.5K Total

Current Release:

Non-Debug Version: 77.1K Code, 12.1K Data, 89.2K Total

Debug Version: 168.0K Code, 68.3K Data, 236.3K Total

2) iASL Compiler/Disassembler:

A remark is issued if the effective compile-time length of a package or buffer is zero. Previously, this was a warning.

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16 September 2005. Summary of changes for version 20050916:

1) ACPI CA Core Subsystem:

Fixed a problem within the Resource Manager  
where support for the Generic

Register descriptor was not fully implemented. This descriptor is now  
fully  
recognized, parsed, disassembled, and displayed.

Completely restructured the Resource Manager code to utilize table-driven  
dispatch and lookup, eliminating many of the large switch() statements.  
This  
reduces overall subsystem code size and code complexity. Affects the  
resource parsing and construction, disassembly, and debug dump output.

Cleaned up and restructured the debug dump output for all resource  
descriptors. Improved readability of the output and reduced code size.

Fixed a problem where changes to internal data structures caused the  
optional ACPI\_MUTEX\_DEBUG code to fail compilation if specified.

Code and Data Size: The current and previous library sizes for the core  
subsystem are shown below. These are the code and data sizes for the  
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.  
These  
values do not include any ACPI driver or OSPM code.



The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.4K Code, 11.8K Data, 90.2K Total

Debug Version: 169.6K Code, 69.9K Data, 239.5K Total

Current Release:

Non-Debug Version: 77.5K Code, 12.0K Data, 89.5K Total

Debug Version: 168.1K Code, 68.4K Data, 236.5K Total

2) iASL Compiler/Disassembler:

Updated the disassembler to automatically insert an EndDependentFn() macro into the ASL stream if this macro is missing in the original AML code, simplifying compilation of the resulting ASL module.

Fixed a problem in the disassembler where a disassembled ResourceSource string (within a large resource descriptor) was not surrounded by quotes and not followed by a comma, causing errors when the resulting ASL module was compiled.

Also, escape sequences within a ResourceSource string are now handled correctly (especially "\\")

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02 September 2005. Summary of changes for version 20050902:

1) ACPI CA Core Subsystem:

Fixed a problem with the internal Owner ID allocation and deallocation mechanisms for control method execution and recursive method invocation. This should eliminate the OWNER\_ID\_LIMIT exceptions and "Invalid OwnerId" messages seen on some systems. Recursive method invocation depth is currently limited to 255. (Alexey Starikovskiy)

Completely eliminated all vestiges of support for the "module-level executable code" until this support is fully implemented and debugged. This should eliminate the NO\_RETURN\_VALUE exceptions seen during table load on some systems that invoke this support.

Fixed a problem within the resource manager code where the transaction



flags

for a 64-bit address descriptor were handled incorrectly in the type-specific flag byte.

Consolidated duplicate code within the address descriptor resource manager code, reducing overall subsystem code size.

Fixed a fault when using the AML debugger "disassemble" command to disassemble individual control methods.

Removed references to the "release\_current" directory within the Unix release package.

Code and Data Size: The current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler. These values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.6K Code, 11.7K Data, 90.3K Total

Debug Version: 170.0K Code, 69.9K Data, 239.9K Total

Current Release:

Non-Debug

Version: 78.4K Code, 11.8K Data, 90.2K Total

Debug Version: 169.6K Code, 69.9K Data, 239.5K Total

## 2) iASL Compiler/Disassembler:

Implemented an error check for illegal duplicate values in the interrupt and dma lists for the following ASL macros: Dma(), Irq(), IrqNoFlags(), and Interrupt().

Implemented error checking for the Irq() and IrqNoFlags() macros to detect too many values in the interrupt list (16 max) and invalid values in the list (range 0 - 15)

The maximum length string literal within an ASL file is now restricted to



200 characters as per the ACPI specification.

Fixed a fault when using the -ln option (generate namespace listing).

Implemented an error check to determine if a DescriptorName within a resource descriptor has already been used within the current scope.

-----  
15 August 2005. Summary of changes for version 20050815:

1) ACPI CA Core Subsystem:

Implemented a full bitwise compare to determine if a table load request is attempting to load a duplicate table. The compare is performed if the table signatures and table lengths match. This will allow different tables with the same OEM Table ID and revision to be loaded - probably against the ACPI specification, but discovered in the field nonetheless.

Added the changes.txt logfile to each of the zipped release packages.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.  
Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.6K Code, 11.7K Data, 90.3K Total

Debug Version: 167.0K

Code, 69.9K Data, 236.9K Total

Current Release:

Non-Debug Version: 78.6K Code, 11.7K Data, 90.3K Total

Debug Version: 170.0K Code, 69.9K Data, 239.9K Total

2) iASL Compiler/Disassembler:

Fixed a problem where incorrect AML code could be generated for Package objects if optimization is disabled (via the -oa switch).



Fixed a problem with where incorrect AML code is generated for variable-length packages when the package length is not specified and the number of initializer values is greater than 255.

-----  
29 July 2005. Summary of changes for version 20050729:

1) ACPI CA Core Subsystem:

Implemented support to ignore an attempt to install/load a particular ACPI table more than once. Apparently there exists BIOS code that repeatedly attempts to load the same SSDT upon certain events. With assistance from Venkatesh Pallipadi.

Restructured the main interface to the AML parser in order to correctly handle all exceptional conditions. This will prevent leakage of the OwnerId resource and should eliminate the AE\_OWNER\_ID\_LIMIT exceptions seen on some machines. With assistance from Alexey Starikovskiy.

Support for "module level code" has been disabled in this version due to a number of issues that have appeared on various machines. The support can be enabled by defining ACPI\_ENABLE\_MODULE\_LEVEL\_CODE during subsystem compilation. When the issues are fully resolved, the code will be enabled by default again.

Modified the internal functions for debug print support to define the FunctionName parameter as a (const char \*) for compatibility with compiler built-in macros such as \_\_FUNCTION\_\_, etc.

Linted the entire ACPICA source tree for both 32-bit and 64-bit.

Implemented support to display an object count summary for the AML Debugger commands Object and Methods.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for



the acpica.lib  
produced  
by the Microsoft Visual C++ 6.0 compiler, and these values do not include  
any ACPI driver or OSPM code. The debug version of the code includes the  
debug output trace mechanism and has a much larger code and data size.  
Note  
that these values will vary depending on the efficiency of the compiler  
and  
the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.6K Code, 11.6K Data, 90.2K Total

Debug Version: 170.0K Code, 69.7K Data, 239.7K Total

Current Release:

Non-Debug Version: 78.6K Code, 11.7K Data, 90.3K Total

Debug Version: 167.0K Code, 69.9K Data, 236.9K Total

2) iASL Compiler/Disassembler:

Fixed a regression that appeared in the 20050708 version of the compiler  
where an error message was inadvertently emitted for invocations of the  
\_OSI  
reserved control method.

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08 July 2005. Summary of changes for version 20050708:

1) ACPI CA Core Subsystem:

The  
use of the CPU stack in the debug version of the subsystem has been  
considerably reduced. Previously, a debug structure was declared in every  
function that used the debug macros. This structure has been removed in  
favor of declaring the individual elements as parameters to the debug  
functions. This reduces the cumulative stack use during nested execution  
of  
ACPI function calls at the cost of a small increase in the code size of  
the  
debug version of the subsystem. With assistance from Alexey Starikovskiy  
and  
Len Brown.

Added the ACPI\_GET\_FUNCTION\_NAME macro to enable the compiler-dependent  
headers to define a macro that will return the current function name at  
runtime (such as \_\_FUNCTION\_\_ or \_func\_, etc.) The function name is used  
by  
the debug trace output. If ACPI\_GET\_FUNCTION\_NAME is not defined in the



compiler-dependent header, the function name is saved on the CPU stack (one pointer per function.) This mechanism is used because apparently there exists no standard ANSI-C defined macro that that returns the function name.

Redesigned and reimplemented the "Owner ID" mechanism used to track namespace objects created/deleted by ACPI tables and control method execution. A bitmap is now used to allocate and free the IDs, thus solving the wraparound problem present in the previous implementation. The size of the namespace node descriptor was reduced by 2 bytes as a result (Alexey Starikovskiy).

Removed the UINT32\_BIT and UINT16\_BIT types that were used for the bitfield flag definitions within the headers for the predefined ACPI tables. These have been replaced by UINT8\_BIT in order to increase the code portability of the subsystem. If the use of UINT8 remains a problem, we may be forced to eliminate bitfields entirely because of a lack of portability.

Enhanced the performance of the AcpiUtUpdateObjectReference procedure. This is a frequently used function and this improvement increases the performance of the entire subsystem (Alexey Starikovskiy).

Fixed several possible memory leaks and the inverse - premature object deletion (Alexey Starikovskiy).

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.6K Code, 11.5K Data, 90.1K Total

Debug Version: 165.2K Code, 69.6K Data, 234.8K Total



Current Release:

Non-Debug Version: 78.6K Code, 11.6K Data, 90.2K Total

Debug Version: 170.0K Code, 69.7K Data, 239.7K Total

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24 June 2005. Summary of changes for version  
20050624:

1) ACPI CA Core Subsystem:

Modified the new OSL cache interfaces to use `ACPI_CACHE_T` as the type for the host-defined cache object. This allows the OSL implementation to define and type this object in any manner desired, simplifying the OSL implementation. For example, `ACPI_CACHE_T` is defined as `kmem_cache_t` for Linux, and should be defined in the OS-specific header file for other operating systems as required.

Changed the interface to `AcpiOsAcquireObject` to directly return the requested object as the function return (instead of `ACPI_STATUS`.) This change was made for performance reasons, since this is the purpose of the interface in the first place. `AcpiOsAcquireObject` is now similar to the `AcpiOsAllocate` interface.

Implemented a new AML debugger command named `Businfo`. This command displays information about all devices that have an associated `_PRT` object. The `_ADR`, `_HID`, `_UID`, and `_CID` are displayed for these devices.

Modified the initialization sequence in `AcpiInitializeSubsystem` to call the OSL interface `AcpiOsInitialize` first, before any local initialization. This change was required because the global initialization now calls OSL interfaces.

Enhanced the `Dump` command to display the entire contents of Package objects (including all sub-objects and their values.)

Restructured the code base to split some files because of size and/or because the code logically belonged in a separate file. New files are listed below. All makefiles and project files included in the ACPI CA release have been updated.



```
utilities/utcache.c      /* Local cache interfaces */
utilities/utmutex.c      /* Local mutex support */
utilities/utstate.c      /* State object support */
interpreter/parser/psloop.c /* Main AML parse loop */
```

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.3K Code, 11.6K Data, 89.9K Total

Debug Version: 164.0K Code, 69.1K Data, 233.1K Total

Current Release:

Non-Debug Version: 78.6K Code, 11.5K Data, 90.1K Total

Debug Version: 165.2K Code, 69.6K Data, 234.8K Total

2) iASL Compiler/Disassembler:

Fixed a regression introduced in version 20050513 where the use of a Package object within a Case() statement caused a compile time exception. The original behavior has been restored (a Match() operator is emitted.)

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17 June 2005. Summary of changes for version 20050617:

1) ACPI CA Core Subsystem:

Moved the object cache operations into the OS interface layer (OSL) to allow the host OS to handle these operations if desired (for example, the Linux OSL will invoke the slab allocator). This support is optional; the compile time define ACPI\_USE\_LOCAL\_CACHE may be used to utilize the original cache code in the ACPI CA core. The new OSL interfaces are shown below. See utalloc.c for an example implementation, and acpiosxf.h for the exact interface definitions. With assistance from Alexey Starikovskiy.



AcpiOsCreateCache  
AcpiOsDeleteCache  
AcpiOsPurgeCache  
AcpiOsAcquireObject  
AcpiOsReleaseObject

Modified the interfaces to AcpiOsAcquireLock and AcpiOsReleaseLock to return  
and restore a flags parameter. This fits better with many OS lock models.  
Note: the current execution state (interrupt handler or not) is no longer passed to these interfaces. If necessary, the OSL must determine this state  
by itself, a simple and fast operation. With assistance from Alexey Starikovskiy.

Fixed  
a problem in the ACPI table handling where a valid XSDT was assumed present if the revision of the RSDP was 2 or greater. According to the ACPI  
specification, the XSDT is optional in all cases, and the table manager therefore now checks for both an RSDP  $\geq 2$  and a valid XSDT pointer. Otherwise, the RSDT pointer is used. Some ACPI 2.0 compliant BIOSs contain  
only the RSDT.

Fixed an interpreter problem with the Mid() operator in the case of an input  
string where the resulting output string is of zero length. It now correctly  
returns a valid, null terminated string object instead of a string object with a null pointer.

Fixed a problem with the control method argument handling to allow a store  
to an Arg object that already contains an object of type Device. The Device  
object is now correctly overwritten. Previously, an error was returned.

Enhanced the debugger Find command to emit object values in addition to the  
found object pathnames. The output format is the same  
as the dump  
namespace  
command.

Enhanced the debugger Set command. It now has the ability to set the value



of any Named integer object in the namespace (Previously, only method locals and args could be set.)

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.1K Code, 11.6K Data, 89.7K Total

Debug Version: 164.0K Code, 69.3K Data, 233.3K Total

Current Release:

Non-Debug Version: 78.3K Code, 11.6K Data, 89.9K Total

Debug Version: 164.0K Code, 69.1K Data, 233.1K Total

2)

iASL Compiler/Disassembler:

Fixed a regression in the disassembler where if/else/while constructs were output incorrectly. This problem was introduced in the previous release (20050526). This problem also affected the single-step disassembly in the debugger.

Fixed a problem where compiling the reserved \_OSI method would randomly (but rarely) produce compile errors.

Enhanced the disassembler to emit compilable code in the face of incorrect AML resource descriptors. If the optional ResourceSourceIndex is present, but the ResourceSource is not, do not emit the ResourceSourceIndex in the disassembly. Otherwise, the resulting code cannot be compiled without errors.

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26 May 2005. Summary of changes for version 20050526:

1) ACPI CA Core Subsystem:



Implemented support to execute Type 1 and Type 2 AML opcodes appearing at the module level (not within a control method.) These opcodes are executed exactly once at the time the table is loaded. This type of code was legal up until the release of ACPI 2.0B (2002) and is now supported within ACPI CA in order to provide backwards compatibility with earlier BIOS implementations. This eliminates the "Encountered executable code at module level" warning that was previously generated upon detection of such code.

Fixed a problem in the interpreter where an AE\_NOT\_FOUND exception could inadvertently be generated during the lookup of namespace objects in the second pass parse of ACPI tables and control methods. It appears that this problem could occur during the resolution of forward references to namespace objects.

Added the ACPI\_MUTEX\_DEBUG #ifdef to the AcpiUtReleaseMutex function, corresponding to the same #ifdef in the AcpiUtAcquireMutex function. This allows the deadlock detection debug code to be compiled out in the normal case, improving mutex performance (and overall subsystem performance) considerably.

Implemented a handful of miscellaneous fixes for possible memory leaks on error conditions and error handling control paths. These fixes were suggested by FreeBSD and the Coverity Prevent source code analysis tool.

Added a check for a null RSDT pointer in AcpiGetFirmwareTable (tbxfroot.c) to prevent a fault in this error case.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:



Non-Debug Version: 78.2K Code, 11.6K Data, 89.8K Total  
Debug Version: 163.7K Code, 69.3K Data, 233.0K Total  
Current Release:  
Non-Debug Version: 78.1K Code, 11.6K  
Data, 89.7K Total  
Debug Version: 164.0K Code, 69.3K Data, 233.3K Total

## 2) iASL Compiler/Disassembler:

Implemented support to allow Type 1 and Type 2 ASL operators to appear at the module level (not within a control method.) These operators will be executed once at the time the table is loaded. This type of code was legal up until the release of ACPI 2.0B (2002) and is now supported by the iASL compiler in order to provide backwards compatibility with earlier BIOS ASL code.

The ACPI integer width (specified via the table revision ID or the -r override, 32 or 64 bits) is now used internally during compile-time constant folding to ensure that constants are truncated to 32 bits if necessary. Previously, the revision ID value was only emitted in the AML table header.

An error message is now generated for the Mutex and Method operators if the SyncLevel parameter is outside the legal range of 0 through 15.

Fixed a problem with the Method operator ParameterTypes list handling (ACPI 3.0). Previously, more than 2 types or 2 arguments generated a syntax error. The actual underlying implementation of method argument typechecking is still under development, however.

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13 May 2005. Summary of changes for version 20050513:

### 1) ACPI CA Core Subsystem:

Implemented support for PCI Express root bridges -- added support for device PNP0A08 in the root bridge search within AcpiEvPciConfigRegionSetup.

The interpreter now automatically truncates incoming 64-bit constants to



bits if currently executing out of a 32-bit ACPI table (Revision < 2).

This

also affects the iASL compiler constant folding. (Note: as per below, the iASL compiler no longer allows 64-bit constants within 32-bit tables.)

Fixed a problem where string and buffer objects with "static" pointers (pointers to initialization data within an ACPI table) were not handled consistently. The internal object copy operation now always copies the data to a newly allocated buffer, regardless of whether the source object is static or not.

Fixed a problem with the FromBCD operator where an implicit result conversion was improperly performed while storing the result to the target operand. Since this is an "explicit conversion" operator, the implicit conversion should never be performed on the output.

Fixed a problem with the CopyObject operator where a copy to an existing named object did not always completely overwrite the existing object stored at name. Specifically, a buffer-to-buffer copy did not delete the existing buffer.

Replaced "InterruptLevel" with "InterruptNumber" in all GPE interfaces and structs for consistency.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.2K Code, 11.6K Data, 89.8K Total

Debug Version: 163.7K Code, 69.3K Data, 233.0K Total

Current Release: (Same sizes)

Non-Debug Version: 78.2K Code, 11.6K Data, 89.8K Total



Debug Version: 163.7K Code, 69.3K Data, 233.0K Total

## 2) iASL Compiler/Disassembler:

The compiler now emits a warning if an attempt is made to generate a 64-bit integer constant from within a 32-bit ACPI table (Revision < 2). The integer is truncated to 32 bits.

Fixed a problem with large package objects: if the static length of the package is greater than 255, the "variable length package" opcode is emitted. Previously, this caused an error. This requires an update to the ACPI spec, since it currently (incorrectly) states that packages larger than 255 elements are not allowed.

The disassembler now correctly handles variable length packages and packages larger than 255 elements.

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08 April 2005. Summary of changes for version 20050408:

### 1) ACPI CA Core Subsystem:

Fixed three cases in the interpreter where an "index" argument to an ASL function was still (internally) 32 bits instead of the required 64 bits. This was the Index argument to the Index, Mid, and Match operators.

The "strupr" function is now permanently local (AcpiUtStrupr), since this is not a POSIX-defined function and not present in most kernel-level C libraries. All references to the C library strupr function have been removed from the headers.

Completed the deployment of static functions/prototypes. All prototypes with the static attribute have been moved from the headers to the owning C file.

Implemented an extract option (-e) for the AcpiBin utility (AML binary utility). This option allows the utility to extract individual ACPI tables



from the output of AcpiDmp. It provides the same functionality of the acpixtract.pl perl script without the worry of setting the correct perl options. AcpiBin runs on Windows and has not yet been generated/validated in the Linux/Unix environment (but should be soon).

Updated and fixed the table dump option for AcpiBin (-d). This option converts a single ACPI table to a hex/ascii file, similar to the output of AcpiDmp.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous

Release:

Non-Debug Version: 78.0K Code, 11.6K Data, 89.6K Total

Debug Version: 163.5K Code, 69.3K Data, 232.8K Total

Current Release:

Non-Debug Version: 78.2K Code, 11.6K Data, 89.8K Total

Debug Version: 163.7K Code, 69.3K Data, 233.0K Total

## 2) iASL Compiler/Disassembler:

Disassembler fix: Added a check to ensure that the table length found in the ACPI table header within the input file is not longer than the actual input file size. This indicates some kind of file or table corruption.

-----  
29 March 2005. Summary of changes for version 20050329:

### 1) ACPI CA Core Subsystem:

An error is now generated if an attempt is made to create a Buffer Field of length zero (A CreateField with a length operand of zero.)



The interpreter now issues a warning whenever executable code at the module level is detected during ACPI table load. This will give some idea of the prevalence of this type of code.

Implemented support for references to named objects (other than control methods) within package objects.

Enhanced package object output for the debug object. Package objects are now completely dumped, showing all elements.

Enhanced miscellaneous object output for the debug object. Any object can now be written to the debug object (for example, a device object can be written, and the type of the object will be displayed.)

The "static" qualifier has been added to all local functions across both the core subsystem and the iASL compiler.

The number of "long" lines (> 80 chars) within the source has been significantly reduced, by about 1/3.

Cleaned up all header files to ensure that all CA/iASL functions are prototyped (even static functions) and the formatting is consistent.

Two new header files have been added, acopcode.h and acnames.h.

Removed several obsolete functions that were no longer used.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total

Debug Version: 165.4K Code, 69.7K Data, 236.1K Total

Current Release:

Non-Debug Version: 78.0K Code, 11.6K Data, 89.6K Total



## 2) iASL Compiler/Disassembler:

Fixed a problem with the resource descriptor generation/support. For the ResourceSourceIndex and the ResourceSource fields, both must be present, or both must be not present - can't have one without the other.

The compiler now returns non-zero from the main procedure if any errors have occurred during the compilation.

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09 March 2005. Summary of changes for version 20050309:

### 1) ACPI CA Core Subsystem:

The string-to-buffer implicit conversion code has been modified again after a change to the ACPI specification. In order to match the behavior of the other major ACPI implementation, the target buffer is no longer truncated if the source string is smaller than an existing target buffer. This change requires an update to the ACPI spec, and should eliminate the recent AE\_AML\_BUFFER\_LIMIT issues.

The "implicit return" support was rewritten to a new algorithm that solves the general case. Rather than attempt to determine when a method is about to exit, the result of every ASL operator is saved momentarily until the very next ASL operator is executed. Therefore, no matter how the method exits, there will always be a saved implicit return value. This feature is only enabled with the AcpiGbl\_EnableInterpreterSlack flag, and should eliminate AE\_AML\_NO\_RETURN\_VALUE errors when enabled.

Implemented implicit conversion support for the predicate (operand) of the If, Else, and While operators. String and Buffer arguments are



automatically  
converted to Integers.

Changed the string-to-integer conversion behavior to match the new ACPI errata: "If no integer object exists, a new integer is created. The ASCII string is interpreted as a hexadecimal constant. Each string character is interpreted as a hexadecimal value ('0'-'9', 'A'-'F', 'a', 'f'), starting with the first character as the most significant digit, and ending with the first non-hexadecimal character or end-of-string." This means that the first non-hex character terminates the conversion and this is the code that was changed.

Fixed a problem where the ObjectType operator would fail (fault) when used on an Index of a Package which pointed to a null package element. The operator now properly returns zero (Uninitialized) in this case.

Fixed a problem where the While operator used excessive memory by not properly popping the result stack during execution. There was no memory leak after execution, however. (Code provided by Valery Podrezov.)

Fixed a problem where references to control methods within Package objects caused the method to be invoked, instead of producing a reference object pointing to the method.

Restructured and simplified the pswalk.c module (AcpiPsDeleteParseTree) to improve performance and reduce code size. (Code provided by Alexey Starikovskiy.)

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.  
Note  
that these values will vary depending on  
the efficiency of the compiler  
and  
the compiler options used during generation.

Previous Release:



Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total  
Debug Version: 165.4K Code, 69.6K Data, 236.0K Total  
Current Release:  
Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total  
Debug Version: 165.4K Code, 69.7K Data, 236.1K Total

## 2) iASL Compiler/Disassembler:

Fixed a problem with the Return operator with no arguments. Since the AML grammar for the byte encoding requires an operand for the Return opcode, the compiler now emits a Return(Zero) for this case. An ACPI specification update has been written for this case.

For tables other than the DSDT, namepath optimization is automatically disabled. This is because SSDTs can be loaded anywhere in the namespace, the compiler has no knowledge of where, and thus cannot optimize namepaths.

Added "ProcessorObj" to the ObjectTypeKeyword list. This object type was inadvertently omitted from the ACPI specification, and will require an update to the spec.

The source file scan for ASCII characters is now optional (-a). This change was made because some vendors place non-ascii characters within comments. However, the scan is simply a brute-force byte compare to ensure all characters in the file are in the range 0x00 to 0x7F.

Fixed a problem with the CondRefOf operator where the compiler was inappropriately checking for the existence of the target. Since the point of the operator is to check for the existence of the target at run-time, the compiler no longer checks for the target existence.

Fixed a problem where errors generated from the internal AML interpreter during constant folding were not handled properly, causing a fault.

Fixed a problem with overly aggressive range checking for the Stall operator. The valid range (max 255) is now only checked if the operand is of type Integer. All other operand types cannot be statically checked.

Fixed a problem where control method references within the RefOf, DeRefOf,



and ObjectType operators were not treated properly. They are now treated as actual references, not method invocations.

Fixed and enhanced the "list namespace" option (-ln). This option was broken a number of releases ago.

Improved error handling for the Field, IndexField, and BankField operators.

The compiler now cleanly reports and recovers from errors in the field component (FieldUnit) list.

Fixed a disassembler problem where the optional ResourceDescriptor fields TRS and TTP were not always handled correctly.

Disassembler - Comments in output now use "/" instead of "/\*"

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28 February 2005. Summary of changes for version 20050228:

#### 1) ACPI CA Core Subsystem:

Fixed a problem where the result of an Index() operator (an object reference) must increment the reference count on the target object for the life of the object reference.

Implemented AML Interpreter and Debugger support for the new ACPI 3.0

Extended Address (IO, Memory, Space), QwordSpace, DwordSpace, and WordSpace resource descriptors.

Implemented support in the \_OSI method for the ACPI 3.0 "Extended Address Space Descriptor" string, indicating interpreter support for the descriptors above.

Implemented header support for the new ACPI 3.0 FADT flag bits.

Implemented header support for the new ACPI 3.0 PCI Express bits for the PM1 status/enable registers.

Updated header support for the MADT processor local Apic struct and MADT platform interrupt source struct for new ACPI 3.0 fields.



Implemented header support for the SRAT and SLIT ACPI tables.

Implemented the -s switch in AcpiExec to enable the "InterpreterSlack" flag at runtime.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.2K Code, 11.5K Data, 89.7K Total

Debug Version: 164.9K Code, 69.2K Data, 234.1K Total

Current Release:

Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total

Debug Version: 165.4K Code, 69.6K Data, 236.0K Total

## 2) iASL Compiler/Disassembler:

Fixed a problem with the internal 64-bit String-to-integer conversion with strings less than two characters long.

Fixed a problem with constant folding where the result of the Index() operator can not be considered a constant. This means that Index() cannot be a type3 opcode and this will require an update to the ACPI specification.

Disassembler: Implemented support for the TTP, MTP, and TRS resource descriptor fields. These fields were inadvertently ignored and not output in the disassembly of the resource descriptor.

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11 February 2005. Summary of changes for version 20050211:

## 1) ACPI CA Core Subsystem:



Implemented ACPI 3.0 support for implicit conversion within the Match() operator. MatchObjects can now be of type integer, buffer, or string instead of just type integer. Package elements are implicitly converted to the type of the MatchObject. This change aligns the behavior of Match() with the behavior of the other logical operators (LLess(), etc.) It also requires an errata change to the ACPI specification as this support was intended for ACPI 3.0, but was inadvertently omitted.

Fixed a problem with the internal implicit "to buffer" conversion. Strings that are converted to buffers will cause buffer truncation if the string is smaller than the target buffer. Integers that are converted to buffers will not cause buffer truncation, only zero extension (both as per the ACPI spec.) The problem was introduced when code was added to truncate the buffer, but this should not be performed in all cases, only the string case.

Fixed a problem with the Buffer and Package operators where the interpreter would get confused if two such operators were used as operands to an ASL operator (such as LLess(Buffer(1){0},Buffer(1){1})). The internal result stack was not being popped after the execution of these operators, resulting in an AE\_NO\_RETURN\_VALUE exception.

Fixed a problem with constructs of the form Store(Index(...),...). The reference object returned from Index was inadvertently resolved to an actual value. This problem was introduced in version 20050114 when the behavior of Store() was modified to restrict the object types that can be used as the source operand (to match the ACPI specification.)

Reduced excessive stack use within the AcpiGetObjectInfo procedure.

Added a fix to aclinux.h to allow generation of AcpiExec on Linux.

Updated the AcpiSrc utility to add the FADT\_DESCRIPTOR\_REV2\_MINUS struct.

Code and Data Size: Current and previous core subsystem library sizes are



shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note

that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.1K Code, 11.5K Data, 89.6K Total

Debug Version: 164.8K Code, 69.2K Data, 234.0K Total

Current Release:

Non-Debug Version: 78.2K Code, 11.5K Data, 89.7K Total

Debug Version: 164.9K Code, 69.2K Data, 234.1K Total

## 2) iASL Compiler/Disassembler:

Fixed a code generation problem in the constant folding optimization code where incorrect code was generated if a constant was reduced to a buffer object (i.e., a reduced type 5 opcode.)

Fixed a typechecking problem for the ToBuffer operator. Caused by an incorrect return type in the internal opcode information table.

-----  
25 January 2005. Summary of changes for version 20050125:

### 1) ACPI CA Core Subsystem:

Fixed a recently introduced problem with the Global Lock where the underlying semaphore was not created. This problem was introduced in version 20050114, and caused an AE\_AML\_NO\_OPERAND exception during an Acquire() operation on \_GL.

The local object cache is now optional, and is disabled by default. Both AcpiExec and the iASL compiler enable the cache because they run in user mode and this enhances their performance. #define  
ACPI\_ENABLE\_OBJECT\_CACHE  
to enable the local cache.

Fixed an issue in the internal function AcpiUtEvaluateObject concerning the optional "implicit return" support where an error was returned if no



return  
object was expected, but one was implicitly returned. AE\_OK is now  
returned  
in this case and the implicitly returned object is deleted.  
AcpiUtEvaluateObject is only occasionally used, and only to execute  
reserved  
methods such as \_STA and \_INI where the return type is known up front.

Fixed a few issues with the internal convert-to-integer code. It now  
returns  
an error if an attempt is made to convert a null string, a string of only  
blanks/tabs, or a zero-length buffer. This affects both implicit  
conversion  
and explicit conversion via the ToInteger() operator.

The internal debug code in AcpiUtAcquireMutex has been commented out. It  
is  
not needed for normal operation and should increase the performance of  
the  
entire subsystem. The code remains in case it is needed for debug  
purposes  
again.

The AcpiExec source and makefile are included in the Unix/Linux package  
for  
the first time.

Code and Data Size: Current and previous core subsystem library sizes are  
shown  
below. These are the code and data sizes for the acpica.lib  
produced  
by the Microsoft Visual C++ 6.0 compiler, and these values do not include  
any ACPI driver or OSPM code. The debug version of the code includes the  
debug output trace mechanism and has a much larger code and data size.  
Note  
that these values will vary depending on the efficiency of the compiler  
and  
the compiler options used during generation.

#### Previous Release:

Non-Debug Version: 78.4K Code, 11.5K Data, 89.9K Total

Debug Version: 165.4K Code, 69.4K Data, 234.8K Total

#### Current Release:

Non-Debug Version: 78.1K Code, 11.5K Data, 89.6K Total

Debug Version: 164.8K Code, 69.2K Data, 234.0K Total

#### 2) iASL Compiler/Disassembler:



Switch/Case support: A warning is now issued if the type of the Switch value cannot be determined at compile time. For example, Switch(Arg0) will generate the warning, and the type is assumed to be an integer. As per the ACPI spec, use a construct such as Switch(ToInteger(Arg0)) to eliminate the warning.

Switch/Case support: Implemented support for buffer and string objects as the switch value. This is an ACPI 3.0 feature, now that LEqual supports buffers and strings.

Switch/Case support: The emitted code for the LEqual() comparisons now uses the switch value as the first operand, not the second. The case value is now the second operand, and this allows the case value to be implicitly converted to the type of the switch value, not the other way around.

Switch/Case support: Temporary variables are now emitted immediately within the control method, not at the global level. This means that there are now 36 temps available per-method, not 36 temps per-module as was the case with the earlier implementation (\_T\_0 through \_T\_9 and \_T\_A through \_T\_Z.)

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14 January 2005. Summary of changes for version 20050114:

Added 2005 copyright to all module headers. This affects every module in the core subsystem, iASL compiler, and the utilities.

#### 1) ACPI CA Core Subsystem:

Fixed an issue with the String-to-Buffer conversion code where the string null terminator was not included in the buffer after conversion, but there is existing ASL that assumes the string null terminator is included. This is the root of the ACPI\_AML\_BUFFER\_LIMIT regression. This problem was introduced in the previous version when the code was updated to correctly set the converted buffer size as per the ACPI specification. The ACPI spec



is ambiguous and will be updated to specify that the null terminator must be included in the converted buffer. This also affects the ToBuffer() ASL operator.

Fixed a problem with the Mid() ASL/AML operator where it did not work correctly on Buffer objects. Newly created sub-buffers were not being marked as initialized.

Fixed a problem in AcpiTbFindTable where incorrect string compares were performed on the OemId and OemTableId table header fields.

These fields are not null terminated, so strncmp is now used instead of strcmp.

Implemented a restriction on the Store() ASL/AML operator to align the behavior with the ACPI specification. Previously, any object could be used as the source operand. Now, the only objects that may be used are Integers, Buffers, Strings, Packages, Object References, and DDB Handles. If necessary, the original behavior can be restored by enabling the EnableInterpreterSlack flag.

Enhanced the optional "implicit return" support to allow an implicit return value from methods that are invoked externally via the AcpiEvaluateObject interface. This enables implicit returns from the \_STA and \_INI methods, for example.

Changed the Revision() ASL/AML operator to return the current version of the AML interpreter, in the YYYYMMDD format. Previously, it incorrectly returned the supported ACPI version (This is the function of the \_REV method).

Updated the \_REV predefined method to return the currently supported version of ACPI, now 3.

Implemented batch mode option for the AcpiExec utility (-b).

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced



by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note

that these values will vary depending on the efficiency of the compiler and

the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total

Debug Version: 165.3K Code, 69.4K Data, 234.7K Total

Current Release:

Non-Debug Version: 78.4K Code, 11.5K Data, 89.9K Total

Debug Version: 165.4K Code, 69.4K Data, 234.8K Total

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10 December 2004. Summary of changes for version 20041210:

ACPI

3.0 support is nearing completion in both the iASL compiler and the ACPI CA core subsystem.

1) ACPI CA Core Subsystem:

Fixed a problem in the ToDecimalString operator where the resulting string

length was incorrectly calculated. The length is now calculated exactly, eliminating incorrect AE\_STRING\_LIMIT exceptions.

Fixed a problem in the ToHexString operator to allow a maximum 200 character string to be produced.

Fixed a problem in the internal string-to-buffer and buffer-to-buffer copy routine where the length of the resulting buffer was not truncated to the new size (if the target buffer already existed).

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced

by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note

that these values will vary depending on the efficiency of the compiler and



the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total

Debug Version: 164.7K Code, 68.5K Data, 233.2K Total

Current Release:

Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total

Debug Version: 165.3K Code, 69.4K Data, 234.7K Total

2) iASL Compiler/Disassembler:

Implemented the new ACPI 3.0 resource template macros - DWordSpace, ExtendedIO, ExtendedMemory, ExtendedSpace, QWordSpace, and WordSpace. Includes support in the disassembler.

Implemented support for the new (ACPI 3.0) parameter to the Register macro, AccessSize.

Fixed a problem where the \_HE resource name for the Interrupt macro was referencing bit 0 instead of bit 1.

Implemented check for maximum 255 interrupts in the Interrupt macro.

Fixed a problem with the predefined resource descriptor names where incorrect

AML code was generated if the offset within the resource buffer was 0 or 1. The optimizer shortened the AML code to a single byte opcode but did not update the surrounding package lengths.

Changes to the Dma macro: All channels within the channel list must be in the range 0-7. Maximum 8 channels can be specified. BusMaster operand is optional (default is BusMaster).

Implemented check for maximum 7 data bytes for the VendorShort macro.

The ReadWrite parameter is now optional for the Memory32 and similar macros.

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03 December 2004. Summary of changes for version 20041203:

1) ACPI CA Core Subsystem:

The low-level field insertion/extraction code (exfldio) has been completely



rewritten to eliminate unnecessary complexity, bugs, and boundary conditions.

Fixed a problem in the ToInteger, ToBuffer, ToHexString, and ToDecimalString operators where the input operand could be inadvertently deleted if no conversion was necessary (e.g., if the input to ToInteger was an Integer object.)

Fixed a problem with the ToDecimalString and ToHexString where an incorrect exception code was returned if the resulting string would be > 200 chars. AE\_STRING\_LIMIT is now returned.

Fixed a problem with the Concatenate operator where AE\_OK was always returned, even if the operation failed.

Fixed a problem in oswinxf (used by AcpiExec and iASL) to allow > 128 semaphores to be allocated.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.  
Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 78.5K  
Code, 11.5K Data, 90.0K Total  
Debug Version: 165.2K Code, 68.6K Data, 233.8K Total

Current Release:

Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total  
Debug Version: 164.7K Code, 68.5K Data, 233.2K Total

2) iASL Compiler/Disassembler:

Fixed typechecking for the ObjectType and SizeOf operators. Problem was recently introduced in 20041119.

Fixed a problem with the ToUUID macro where the upper nybble of each buffer



byte was inadvertently set to zero.

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19 November 2004. Summary of changes for version 20041119:

1) ACPI CA Core Subsystem:

Fixed a problem in the internal ConvertToInteger routine where new integers were not truncated to 32 bits for 32-bit ACPI tables. This routine converts buffers and strings to integers.

Implemented support to store a value to an Index() on a String object. This is an ACPI 2.0 feature that had not yet been implemented.

Implemented new behavior for storing objects to individual package elements (via the Index() operator). The previous behavior was to invoke the implicit conversion rules if an object was already present at the index. The new behavior is to simply delete any existing object and directly store the new object. Although the ACPI specification seems unclear on this subject, other ACPI implementations behave in this manner. (This is the root of the AE\_BAD\_HEX\_CONSTANT issue.)

Modified the RSDP memory scan mechanism to support the extended checksum for ACPI 2.0 (and above) RSDPs. Note that the search continues until a valid RSDP signature is found with a valid checksum.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:



Non-Debug Version: 78.5K Code, 11.5K Data, 90.0K Total  
Debug Version: 165.2K Code, 68.6K Data, 233.8K Total  
Current Release:  
Non-Debug Version: 78.5K Code, 11.5K Data, 90.0K Total  
Debug Version: 165.2K Code, 68.6K Data, 233.8K Total

## 2) iASL Compiler/Disassembler:

Fixed a missing semicolon in the aslcompiler.y file.

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05 November 2004. Summary of changes for version 20041105:

### 1) ACPI CA Core Subsystem:

Implemented support for FADT revision 2. This was an interim table (between ACPI 1.0 and ACPI 2.0) that adds support for the FADT reset register.

Implemented optional support to allow uninitialized LocalX and ArgX variables in a control method. The variables are initialized to an Integer object with a value of zero. This support is enabled by setting the AcpiGbl\_EnableInterpreterSlack flag to TRUE.

Implemented support for Integer objects for the SizeOf operator. Either 4 or 8 is returned, depending on the current integer size (32-bit or 64-bit, depending on the parent table revision).

Fixed a problem in the implementation of the SizeOf and ObjectType operators where the operand was resolved to a value too early, causing incorrect return values for some objects.

Fixed some possible memory leaks during exceptional conditions.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.  
Note that these values will vary depending on the efficiency of the compiler



and  
the compiler options used  
during generation.

Previous Release:

Non-Debug Version: 78.0K Code, 11.5K Data, 89.5K Total

Debug Version: 164.8K Code, 68.6K Data, 233.4K Total

Current Release:

Non-Debug Version: 78.5K Code, 11.5K Data, 90.0K Total

Debug Version: 165.2K Code, 68.6K Data, 233.8K Total

2) iASL Compiler/Disassembler:

Implemented support for all ACPI 3.0 reserved names and methods.

Implemented all ACPI 3.0 grammar elements in the front-end, including support for semicolons.

Implemented the ACPI 3.0 Function() and ToUUID() macros

Fixed a problem in the disassembler where a Scope() operator would not be emitted properly if the target of the scope was in another table.

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15 October 2004. Summary of changes for version 20041015:

Note: ACPI CA is currently undergoing an in-depth and complete formal evaluation to test/verify the following areas. Other suggestions are welcome. This will result in an increase in the frequency of releases and

the number of bug fixes in the next few months.

- Functional tests for all ASL/AML operators
- All implicit/explicit type conversions
- Bit fields and operation regions
- 64-bit math support and 32-bit-only "truncated" math support
- Exceptional conditions, both compiler and interpreter
- Dynamic object deletion and memory leaks
- ACPI 3.0 support when implemented
- External interfaces to the ACPI subsystem

1) ACPI CA Core Subsystem:

Fixed two alignment issues on 64-bit platforms - within debug statements in

AcpiEvGpeDetect and AcpiEvCreateGpeBlock. Removed references to the Address



field within the non-aligned ACPI generic address structure.

Fixed a problem in the Increment and Decrement operators where incorrect operand resolution could result in the inadvertent modification of the original integer when the integer is passed into another method as an argument and the arg is then incremented/decremented.

Fixed a problem in the FromBCD operator where the upper 32-bits of a 64-bit BCD number were truncated during conversion.

Fixed a problem in the ToDecimal operator where the length of the resulting string could be set incorrectly too long if the input operand was a Buffer object.

Fixed a problem in the Logical operators (LLess, etc.) where a NULL byte (0) within a buffer would prematurely terminate a compare between buffer objects.

Added a check for string overflow (>200 characters as per the ACPI specification) during the Concatenate operator with two string operands.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.  
Note  
that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 77.8K Code, 11.5K Data, 89.3K Total

Debug Version: 164.6K Code, 68.5K Data, 233.1K Total

Current Release:

Non-Debug Version: 78.0K Code, 11.5K Data, 89.5K Total

Debug Version: 164.8K Code, 68.6K Data, 233.4K Total

2) iASL Compiler/Disassembler:



Allow the use of the ObjectType operator on uninitialized Locals and Args (returns 0 as per the ACPI specification).

Fixed a problem where the compiler would fault if there was a syntax error in the FieldName of all of the various CreateXXXField operators.

Disallow the use of lower case letters within the EISAID macro, as per the ACPI specification. All EISAID strings must be of the form "UUUNNNN" Where U is an uppercase letter and N is a hex digit.

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06 October 2004. Summary of changes for version 20041006:

1) ACPI CA Core Subsystem:

Implemented support for the ACPI 3.0 Timer operator. This ASL function implements a 64-bit timer with 100 nanosecond granularity.

Defined a new OSL interface, AcpiOsGetTimer. This interface is used to implement the ACPI 3.0 Timer operator. This allows the host OS to implement the timer with the best clock available. Also, it keeps the core subsystem out of the clock handling business, since the host OS (usually) performs this function.

Fixed an alignment issue on 64-bit platforms. The HwLowLevelRead(Write) functions use a 64-bit address which is part of the packed ACPI Generic Address Structure. Since the structure is non-aligned, the alignment macros are now used to extract the address to a local variable before use.

Fixed a problem where the ToInteger operator assumed all input strings were hexadecimal. The operator now handles both decimal strings and hex strings (prefixed with "0x").

Fixed a problem where the string length in the string object created as a result of the internal ConvertToString procedure could be incorrect. This potentially affected all implicit conversions and also the



ToDecimalString  
and ToHexString operators.

Fixed two problems in the ToString operator. If the length parameter was zero, an incorrect string object was created and the value of the input length parameter was inadvertently changed from zero to Ones.

Fixed a problem where the optional ResourceSource string in the ExtendedIRQ resource macro was ignored.

Simplified the interfaces to the internal division functions, reducing code size and complexity.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note  
that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 77.9K Code, 11.4K Data, 89.3K Total

Debug Version: 164.5K Code, 68.3K Data, 232.8K Total

Current Release:

Non-Debug Version: 77.8K Code, 11.5K Data, 89.3K Total

Debug Version: 164.6K Code, 68.5K Data, 233.1K Total

2) iASL Compiler/Disassembler:

Implemented support for the ACPI 3.0 Timer operator.

Fixed a problem where the Default() operator was inadvertently ignored in a Switch/Case block. This was a problem in the translation of the Switch statement to If...Else pairs.

Added support to allow a standalone Return operator, with no parentheses (or operands).



Fixed a problem with code generation for the ElseIf operator where the translated Else...If parse tree was improperly constructed leading to the loss of some code.

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22 September 2004. Summary of changes for version 20040922:

1)

ACPI CA Core Subsystem:

Fixed a problem with the implementation of the LNot() operator where "Ones" was not returned for the TRUE case. Changed the code to return Ones instead of (!Arg) which was usually 1. This change affects iASL constant folding for this operator also.

Fixed a problem in AcpiUtInitializeBuffer where an existing buffer was not initialized properly -- Now zero the entire buffer in this case where the buffer already exists.

Changed the interface to AcpiOsSleep from (UINT32 Seconds, UINT32 Milliseconds) to simply (ACPI\_INTEGER Milliseconds). This simplifies all related code considerably. This will require changes/updates to all OS interface layers (OSLs.)

Implemented a new external interface, AcpiInstallExceptionHandler, to allow a system exception handler to be installed. This handler is invoked upon any run-time exception that occurs during control method execution.

Added support for the DSDT in AcpiTbFindTable. This allows the DataTableRegion() operator to access the local copy of the DSDT.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.



Previous Release:

Non-Debug Version: 77.8K Code, 11.4K Data, 89.2K Total

Debug Version: 164.2K Code, 68.2K Data, 232.4K Total

Current Release:

Non-Debug Version: 77.9K Code, 11.4K Data, 89.3K Total

Debug Version: 164.5K Code, 68.3K Data, 232.8K Total

2) iASL Compiler/Disassembler:

Fixed a problem with constant folding and the LNot operator. LNot was returning 1 in the TRUE case, not Ones as per the ACPI specification.

This

could result in the generation of an incorrect folded/reduced constant.

End-Of-File is now allowed within a "///"-style comment. A parse error no longer occurs if such a comment is at the very end of the input ASL source file.

Implemented the "-r" option to override the Revision in the table header. The initial use of this option will be to simplify the evaluation of the AML interpreter by allowing a single ASL source module to be compiled for either 32-bit or 64-bit integers.

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27 August 2004. Summary of changes for version 20040827:

1) ACPI CA Core Subsystem:

- Implemented support for implicit object conversion in the non-numeric logical operators (LEqual, LGreater, LGreaterEqual, LLess, LLessEqual, and LNotEqual.) Any combination of Integers/Strings/Buffers may now be used; the second operand is implicitly converted on the fly to match the type of the first operand. For example:

LEqual  
(Source1, Source2)

Source1 and Source2 must each evaluate to an integer, a string, or a buffer.



The data type of Source1 dictates the required type of Source2. Source2 is implicitly converted if necessary to match the type of Source1.

- Updated and corrected the behavior of the string conversion support.

The

rules concerning conversion of buffers to strings (according to the ACPI specification) are as follows:

ToDecimalString - explicit byte-wise conversion of buffer to string of decimal values (0-255) separated by commas. ToHexString - explicit byte-wise

conversion of buffer to string of hex values (0-FF) separated by commas.

ToString - explicit byte-wise conversion of buffer to string. Byte-by-byte

copy with no transform except NULL terminated. Any other implicit buffer-to-

string conversion - byte-wise conversion of buffer to string of hex values

(0-FF) separated by spaces.

- Fixed typo in definition of AcpiGbl\_EnableInterpreterSlack.

- Fixed a problem in AcpiNsGetPathnameLength

where the returned length

was

one byte too short in the case of a node in the root scope. This could cause a fault during debug output.

- Code and Data Size: Current and previous core subsystem library sizes are

shown below. These are the code and data sizes for the acpica.lib produced

by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note

that these values will vary depending on the efficiency of the compiler and

the compiler options used during generation.

Previous Release:

Non-Debug Version: 77.9K Code, 11.5K Data, 89.4K Total

Debug Version: 164.1K Code, 68.3K Data, 232.4K Total

Current Release:

Non-Debug Version: 77.8K Code, 11.4K Data, 89.2K Total

Debug Version: 164.2K Code, 68.2K Data, 232.4K Total



## 2) iASL Compiler/Disassembler:

- Fixed  
a Linux generation error.

-----  
16 August 2004. Summary of changes for version 20040816:

### 1) ACPI CA Core Subsystem:

Designed and implemented support within the AML interpreter for the so-called "implicit return". This support returns the result of the last ASL operation within a control method, in the absence of an explicit Return() operator. A few machines depend on this behavior, even though it is not explicitly supported by the ASL language. It is optional support that can be enabled at runtime via the AcpiGbl\_EnableInterpreterSlack flag.

Removed support for the PCI\_Config address space from the internal low level hardware interfaces (AcpiHwLowLevelRead and AcpiHwLowLevelWrite). This support was not used internally, and would not work correctly anyway because the PCI bus number and segment number were not supported. There are separate interfaces for PCI configuration space access because of the unique interface.

### Code and

Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.  
Note  
that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

### Previous Release:

Non-Debug Version: 78.0K Code, 11.5K Data, 89.5K Total  
Debug Version: 164.1K Code, 68.2K Data, 232.3K Total

### Current Release:

Non-Debug Version: 77.9K Code, 11.5K Data, 89.4K Total



Debug Version: 164.1K Code, 68.3K Data, 232.4K Total

## 2) iASL Compiler/Disassembler:

Fixed a problem where constants in ASL expressions at the root level (not within a control method) could be inadvertently truncated during code generation. This problem was introduced in the 20040715 release.

-----  
15 July 2004. Summary of changes for version 20040715:

### 1) ACPI CA Core Subsystem:

Restructured the internal HW GPE interfaces to pass/track the current state of interrupts (enabled/disabled) in order to avoid possible deadlock and increase flexibility of the interfaces.

Implemented a "lexicographical compare" for String and Buffer objects within the logical operators -- LGreater, LLess, LGreaterEqual, and LLessEqual - as per further clarification to the ACPI specification. Behavior is similar to C library "strcmp".

Completed a major reduction in CPU stack use for the AcpiGetFirmwareTable external function. In the 32-bit non-debug case, the stack use has been reduced from 168 bytes to 32 bytes.

Deployed a new run-time configuration flag, AcpiGbl\_EnableInterpreterSlack, whose purpose is to allow the AML interpreter to forgive certain bad AML constructs. Default setting is FALSE.

Implemented the first use of AcpiGbl\_EnableInterpreterSlack in the Field IO support code. If enabled, it allows field access to go beyond the end of a region definition if the field is within the region length rounded up to the next access width boundary (a common coding error.)

Renamed OSD\_HANDLER to ACPI\_OSD\_HANDLER, and OSD\_EXECUTION\_CALLBACK to



ACPI\_OSD\_EXEC\_CALLBACK for consistency with other ACPI symbols. Also, these symbols are lowercase by the latest version of the AcpiSrc tool.

The prototypes for the PCI interfaces in acpiosxf.h have been updated to rename "Register" to simply "Reg" to prevent certain compilers from complaining.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 77.8K Code, 11.5K Data, 89.3K Total

Debug Version: 163.8K Code, 68.2K Data, 232.0K Total

Current Release:

Non-Debug Version: 78.0K Code, 11.5K Data, 89.5K Total

Debug Version: 164.1K Code, 68.2K Data, 232.3K Total

## 2) iASL Compiler/Disassembler:

Implemented full support for Package objects within the Case() operator.

Note: The Break() operator is currently not supported within Case blocks (TermLists) as there is some question about backward compatibility with ACPI

1.0 interpreters.

Fixed a problem where complex terms were not supported properly within the Switch() operator.

Eliminated extraneous warning for compiler-emitted reserved names of the form "\_T\_x". (Used in Switch/Case operators.)

Eliminated optimization messages for "\_T\_x" objects and small constants within the DefinitionBlock operator.



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15 June 2004. Summary of changes for version 20040615:

1) ACPI CA Core Subsystem:

Implemented support for Buffer and String objects (as per ACPI 2.0) for the following ASL operators: LEqual, LGreater, LLess, LGreaterEqual, and LLessEqual.

All directory names in the entire source package are lower case, as they were in earlier releases.

Implemented "Disassemble" command in the AML debugger that will disassemble a single control method.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.  
Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 77.7K Code, 11.5K Data, 89.2K Total

Debug Version: 163.3K Code, 67.2K Data, 230.5K Total

Current Release:

Non-Debug Version: 77.8K Code, 11.5K Data, 89.3K Total

Debug Version: 163.8K Code, 68.2K Data, 232.0K Total

2) iASL Compiler/Disassembler:

Implemented support for Buffer and String objects (as per ACPI 2.0) for the following ASL operators: LEqual, LGreater, LLess, LGreaterEqual, and LLessEqual.

All directory names in the entire source package are lower case, as they were in earlier releases.



Fixed a fault when using the -g or -d<nofilename> options if the FADT was not found.

Fixed an issue with the Windows version of the compiler where later versions of Windows place the FADT in the registry under the name "FADT" and not "FACP" as earlier versions did. This applies when using the -g or -d<nofilename> options. The compiler now looks for both strings as necessary.

Fixed a problem with compiler namepath optimization where a namepath within the Scope() operator could not be optimized if the namepath was a subpath of the current scope path.

-----  
27 May 2004. Summary of changes for version 20040527:

1) ACPI CA Core Subsystem:

Completed a new design and implementation for EBDA (Extended BIOS Data Area) support in the RSDP scan code. The original code improperly scanned for the EBDA by simply scanning from memory location 0 to 0x400. The correct method is to first obtain the EBDA pointer from within the BIOS data area, then scan 1K of memory starting at the EBDA pointer. There appear to be few if any machines that place the RSDP in the EBDA, however.

Integrated a fix for a possible fault during evaluation of BufferField arguments. Obsolete code that was causing the problem was removed.

Found and fixed a problem in the Field Support Code where data could be corrupted on a bit field read that starts on an aligned boundary but does not end on an aligned boundary. Merged the read/write "datum length" calculation code into a common procedure.

Rolled in a couple of changes to the FreeBSD-specific header.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib



produced

by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note

that these values will vary depending on the efficiency of the compiler and

the compiler options used during generation.

Previous Release:

Non-Debug Version: 77.6K Code, 11.5K Data, 89.1K Total

Debug Version: 163.2K Code, 67.2K Data, 230.4K Total

Current Release:

Non-Debug Version: 77.7K Code, 11.5K Data, 89.2K Total

Debug

Version: 163.3K Code, 67.2K Data, 230.5K Total

## 2) iASL Compiler/Disassembler:

Fixed a generation warning produced by some overly-verbose compilers for a 64-bit constant.

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14 May 2004. Summary of changes for version 20040514:

### 1) ACPI CA Core Subsystem:

Fixed a problem where hardware GPE enable bits sometimes not set properly during and after GPE method execution. Result of 04/27 changes.

Removed extra "clear all GPEs" when sleeping/waking.

Removed AcpiHwEnableGpe and AcpiHwDisableGpe, replaced by the single AcpiHwWriteGpeEnableReg. Changed a couple of calls to the functions above to the new AcpiEv\* calls as appropriate.

ACPI\_OS\_NAME was removed from the OS-specific headers. The default name is now "Microsoft Windows NT" for maximum compatibility. However this can be changed by modifying the acconfig.h file.

Allow a single invocation of AcpiInstallNotifyHandler for a handler that traps both types of notifies (System,



Device). Use ACPI\_ALL\_NOTIFY flag.

Run \_INI methods on ThermalZone objects. This is against the ACPI specification, but there is apparently ASL code in the field that has these \_INI methods, and apparently "other" AML interpreters execute them.

Performed a full 16/32/64 bit lint that resulted in some small changes.

Added a sleep simulation command to the AML debugger to test sleep code.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note  
that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 77.6K Code, 11.5K Data, 89.1K Total

Debug

Version: 162.9K Code, 67.0K Data, 229.9K Total

Current Release:

Non-Debug Version: 77.6K Code, 11.5K Data, 89.1K Total

Debug Version: 163.2K Code, 67.2K Data, 230.4K Total

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27 April 2004. Summary of changes for version 20040427:

#### 1) ACPI CA Core Subsystem:

Completed a major overhaul of the GPE handling within ACPI CA. There are now three types of GPEs: wake-only, runtime-only, and combination wake/run.

The only GPEs allowed to be combination wake/run are for button-style devices such as a control-method power button, control-method sleep button,

or a notebook lid switch. GPEs that have an \_Lxx or \_Exx method and are not

referenced by any \_PRW methods are marked for "runtime" and hardware enabled. Any GPE that is referenced by a \_PRW method is marked for "wake"

(and disabled at runtime). However, at sleep time, only those GPEs that have been specifically enabled for wake via the AcpiEnableGpe interface



will  
actually be hardware enabled.

A new external interface has been added, `AcpiSetGpeType()`, that is meant to be used by device drivers to force a GPE to a particular type. It will be especially useful for the drivers for the button devices mentioned above.

Completed restructuring of the ACPI CA initialization sequence so that default operation region handlers are installed before GPEs are initialized and the `_PRW` methods are executed. This will prevent errors when the `_PRW` methods attempt to access system memory or I/O space.

GPE enable/disable no longer reads the GPE enable register. We now keep the enable info for runtime and wake separate and in the `GPE_EVENT_INFO`. We thus no longer depend on the hardware to maintain these bits.

Always clear the wake status and fixed/GPE status bits before sleep, even for state S5.

Improved the AML debugger output for displaying the GPE blocks and their current status.

Added new strings for the `_OSI` method, of the form "Windows 2001 SPx" where  $x = 0,1,2,3,4$ .

Fixed a problem where the physical address was incorrectly calculated when the `Load()` operator was used to directly load from an Operation Region (vs. loading from a Field object.) Also added check for minimum table length for this case.

Fix for multiple mutex acquisition. Restore original thread `SyncLevel` on mutex release.

Added `ACPI_VALID_SXDS` flag to the `AcpiGetObjectInfo` interface for consistency with the other fields returned.

Shrunk the `ACPI_GPE_EVENT_INFO` structure by 40%. There is one such



structure for each GPE in the system, so the size of this structure is important.

CPU stack requirement reduction: Cleaned up the method execution and object evaluation paths so that now a parameter structure is passed, instead of copying the various method parameters over and over again.

In `evregion.c`: Correctly exit and reenter the interpreter region if and only if dispatching an operation region request to a user-installed

handler.

Do not exit/reenter when dispatching to a default handler (e.g., default system memory or I/O handlers)

Notes for updating drivers for the new GPE support. The following changes must be made to ACPI-related device drivers that are attached to one or more GPEs: (This information will be added to the ACPI CA Programmer Reference.)

- 1) `AcpiInstallGpeHandler` no longer automatically enables the GPE, you must explicitly call `AcpiEnableGpe`.
- 2) There is a new interface called `AcpiSetGpeType`. This should be called before enabling the GPE. Also, this interface will automatically disable the GPE if it is currently enabled.
- 3) `AcpiEnableGpe` no longer supports a GPE type flag.

Specific drivers that must be changed:

- 1) EC driver:

```
AcpiInstallGpeHandler (NULL, GpeNum, ACPI_GPE_EDGE_TRIGGERED,
AeGpeHandler, NULL);
AcpiSetGpeType (NULL, GpeNum, ACPI_GPE_TYPE_RUNTIME);
AcpiEnableGpe (NULL, GpeNum, ACPI_NOT_ISR);
```

- 2) Button Drivers (Power, Lid, Sleep):

`Run _PRW`

method under parent device

If `_PRW` exists: /\* This is a control-method button \*/

Extract GPE number and possibly `GpeDevice`

```
AcpiSetGpeType (GpeDevice, GpeNum, ACPI_GPE_TYPE_WAKE_RUN);
AcpiEnableGpe (GpeDevice, GpeNum, ACPI_NOT_ISR);
```

For all other devices that have `_PRWs`, we automatically set the GPE type to



ACPI\_GPE\_TYPE\_WAKE, but the GPE is NOT automatically (wake) enabled.

This

must be done on a selective basis, usually requiring some kind of user app

to allow the user to pick the wake devices.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced

by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note

that these values will vary depending on the efficiency of the compiler and

the compiler options

used during generation.

Previous Release:

Non-Debug Version: 77.0K Code, 11.4K Data, 88.4K Total

Debug Version: 161.0K Code, 66.3K Data, 227.3K Total

Current Release:

Non-Debug Version: 77.6K Code, 11.5K Data, 89.1K Total

Debug Version: 162.9K Code, 67.0K Data, 229.9K Total

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02 April 2004. Summary of changes for version 20040402:

#### 1) ACPI CA Core Subsystem:

Fixed an interpreter problem where an indirect store through an ArgX parameter was incorrectly applying the "implicit conversion rules" during the store. From the ACPI specification: "If the target is a method local or argument (LocalX or ArgX), no conversion is performed and the result is stored directly to the target". The new behavior is to disable implicit conversion during ALL stores to an ArgX.

Changed the behavior of the \_PRW method scan to ignore any and all errors returned by a given \_PRW. This prevents the scan from aborting from the failure of any single \_PRW.

Moved the runtime configuration parameters from the global init procedure



to  
static variables in acglobal.h. This will allow the host to override the  
default values easily.

Code and Data Size: Current and previous core subsystem library sizes are  
shown below. These are the code and data sizes for the acpica.lib  
produced  
by the Microsoft Visual C++ 6.0 compiler, and these values do not include  
any ACPI driver or OSPM code. The debug version of the code includes the  
debug output trace mechanism and has a much larger code and data size.  
Note  
that these values will vary depending on the efficiency of the compiler  
and  
the compiler options used during generation.

Previous Release:

Non-Debug Version: 76.9K Code, 11.4K Data, 88.3K Total

Debug Version: 160.8K Code, 66.1K Data, 226.9K Total

Current Release:

Non-Debug Version: 77.0K Code, 11.4K Data, 88.4K Total

Debug Version: 161.0K Code, 66.3K Data,  
227.3K Total

2) iASL Compiler/Disassembler:

iASL now fully disassembles SSDTs. However, External() statements are  
not  
generated automatically for unresolved symbols at this time. This is a  
planned feature for future implementation.

Fixed a scoping problem in the disassembler that occurs when the type of  
the  
target of a Scope() operator is overridden. This problem caused an  
incorrectly nested internal namespace to be constructed.

Any warnings or errors that are emitted during disassembly are now  
commented  
out automatically so that the resulting file can be recompiled without  
any  
hand editing.

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26 March 2004. Summary of changes for version 20040326:

1) ACPI CA Core Subsystem:

Implemented support for "wake" GPEs via interaction between GPEs and the



\_PRW methods. Every GPE that is pointed to by one or more \_PRWs is identified as a WAKE GPE and by default will no longer be enabled at runtime. Previously, we were blindly enabling all GPEs with a corresponding \_Lxx or \_Exx method - but most of these turn out to be WAKE GPEs anyway. We believe this has been the cause of thousands of "spurious" GPEs on some systems.

This new GPE behavior is can be reverted to the original behavior (enable ALL GPEs at runtime) via a runtime flag.

Fixed a problem where aliased control methods could not access objects properly. The proper scope within the namespace was not initialized (transferred to the target of the aliased method) before executing the target method.

Fixed a potential race condition on internal object deletion on the return object in AcpiEvaluateObject.

Integrated a fix for resource descriptors where both \_MEM and \_MTP were being extracted instead of just \_MEM. (i.e. bitmask was incorrectly too wide, 0x0F instead of 0x03.)

Added a special case for ACPI\_ROOT\_OBJECT in AcpiUtGetNodeName, preventing a fault in some cases.

Updated Notify() values for debug statements in evmisc.c

Return proper status from AcpiUtMutexInitialize, not just simply AE\_OK.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:



Non-Debug Version: 76.5K Code, 11.3K Data, 87.8K Total  
Debug Version: 160.3K Code, 66.0K Data, 226.3K Total  
Current Release:  
Non-Debug Version: 76.9K Code, 11.4K Data, 88.3K Total  
Debug Version: 160.8K Code, 66.1K Data, 226.9K Total

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11 March 2004. Summary of changes for version 20040311:

1) ACPI CA Core Subsystem:

Fixed

a problem where errors occurring during the parse phase of control method execution did not abort cleanly. For example, objects created and installed in the namespace were not deleted. This caused all subsequent invocations of the method to return the AE\_ALREADY\_EXISTS exception.

Implemented a mechanism to force a control method to "Serialized" execution if the method attempts to create namespace objects. (The root of the AE\_ALREADY\_EXISTS problem.)

Implemented support for the predefined \_OSI "internal" control method. Initial supported strings are "Linux", "Windows 2000", "Windows 2001", and "Windows 2001.1", and can be easily upgraded for new strings as necessary.

This feature will allow "other" operating systems to execute the fully tested, "Windows" code path through the ASL code

Global Lock Support: Now allows multiple acquires and releases with any internal thread. Removed concept of "owning thread" for this special mutex.

Fixed two functions that were inappropriately declaring large objects on the CPU stack: PsParseLoop, NsEvaluateRelative. Reduces the stack usage during method execution considerably.

Fixed a problem in the ACPI 2.0 FACS descriptor (actbl2.h) where the S4Bios\_f field was incorrectly defined as UINT32 instead of UINT32\_BIT.

Fixed a problem where AcpiEvGpeDetect would fault if there were no GPEs defined on the machine.



Implemented two runtime options: One to force all control method execution to "Serialized" to mimic Windows behavior, another to disable \_OSI support if it causes problems on a given machine.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 74.8K Code, 10.1K Data, 84.9K Total

Debug Version: 158.7K Code, 65.1K Data, 223.8K Total

Current Release:

Non-Debug Version: 76.5K Code, 11.3K Data, 87.8K Total

Debug Version: 160.3K Code, 66.0K Data, 226.3K Total

2) iASL Compiler/Disassembler:

Fixed an array size problem for FreeBSD that would cause the compiler to fault.

-----  
20 February 2004. Summary of changes for version 20040220:

1) ACPI CA Core Subsystem:

Implemented execution of \_SxD methods for Device objects in the GetObjectInfo interface.

Fixed calls to \_SST method to pass the correct arguments.

Added a call to \_SST on wake to restore to "working" state.

Check for End-Of-Buffer failure case in the WalkResources interface.

Integrated fix for 64-bit alignment issue in acglobal.h by moving two structures



to the beginning of the file.

After wake, clear GPE status register(s) before enabling GPEs.

After wake, clear/enable power button. (Perhaps we should clear/enable all fixed events upon wake.)

Fixed a couple of possible memory leaks in the Namespace manager.

Integrated latest acnetbsd.h file.

-----  
11 February 2004. Summary of changes for version 20040211:

1) ACPI CA Core Subsystem:

Completed investigation and implementation of the call-by-reference mechanism for control method arguments.

Fixed a problem where a store of an object into an indexed package could fail if the store occurs within a different method than the method that created the package.

Fixed a problem where the ToDecimal operator could return incorrect results.

Fixed a problem where the CopyObject operator could fail on some of the more obscure objects (e.g., Reference objects.)

Improved the output of the Debug object to display buffer, package, and index objects.

Fixed  
a problem where constructs of the form "RefOf (ArgX)" did not return the expected result.

Added permanent ACPI\_REPORT\_ERROR macros for all instances of the ACPI\_AML\_INTERNAL exception.

Integrated latest version of acfreebsd.h

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16 January 2004. Summary of changes for version 20040116:



The purpose of this release is primarily to update the copyright years in each module, thus causing a huge number of diffs. There are a few small functional changes, however.

1) ACPI CA Core Subsystem:

Improved error messages when there is a problem finding one or more of the required base ACPI tables

Reintroduced the definition of APIC\_HEADER in actbl.h

Changed definition of MADT\_ADDRESS\_OVERRIDE to 64 bits (actbl.h)

Removed extraneous reference to NewObj in dsmthdat.c

2) iASL compiler

Fixed a problem introduced in December that disabled the correct disassembly of Resource Templates

-----  
03 December

2003. Summary of changes for version 20031203:

1) ACPI CA Core Subsystem:

Changed the initialization of Operation Regions during subsystem init to perform two entire walks of the ACPI namespace; The first to initialize the regions themselves, the second to execute the \_REG methods. This fixed some interdependencies across \_REG methods found on some machines.

Fixed a problem where a Store(Local0, Local1) could simply update the object reference count, and not create a new copy of the object if the Local1 is uninitialized.

Implemented support for the \_SST reserved method during sleep transitions.

Implemented support to clear the SLP\_TYP and SLP\_EN bits when waking up, this is apparently required by some machines.

When sleeping, clear the wake status only if SleepState is not S5.

Fixed a problem in AcpiRsExtendedIrqResource() where an incorrect



pointer arithmetic advanced a string pointer too far.

Fixed a problem in AcpiTbGetTablePtr() where a garbage pointer could be returned if the requested table has not been loaded.

Within the support for IRQ resources, restructured the handling of the active and edge/level bits.

Fixed a few problems in AcpiPsxExecute() where memory could be leaked under certain error conditions.

Improved error messages for the cases where the ACPI mode could not be entered.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the apica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (20031029):

Non-Debug Version: 74.4K Code, 10.1K Data, 84.5K Total

Debug Version: 158.3K Code, 65.0K Data, 223.3K Total

Current Release:

Non-Debug Version: 74.8K Code, 10.1K Data, 84.9K Total

Debug Version: 158.7K Code, 65.1K Data, 223.8K Total

## 2) iASL Compiler/Disassembler:

Implemented a fix for the iASL disassembler where a bad index was generated. This was most noticeable on 64-bit platforms

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29 October 2003. Summary of changes for version 20031029:

### 1) ACPI CA Core Subsystem:

Fixed a problem where a level-triggered GPE with an associated \_Lxx control method was incorrectly cleared twice.

Fixed a problem with the Field support code where an access can occur beyond the end-of-region if the field is non-aligned but



extends to the very end of the parent region (resulted in an AE\_AML\_REGION\_LIMIT exception.)

Fixed a problem with ACPI Fixed Events where an RT Clock handler would not get invoked on an RTC event. The RTC event bitmasks for the PM1 registers were not being initialized properly.

Implemented support for executing \_STA and \_INI methods for Processor objects. Although this is currently not part of the ACPI specification, there is existing ASL code that depends on the init-time execution of these methods.

Implemented and deployed a GetDescriptorName function to decode the various types of internal descriptors. Guards against null descriptors during debug output also.

Implemented and deployed a GetNodeName function to extract the 4-character namespace node name. This function simplifies the debug and error output, as well as guarding against null pointers during output.

Implemented and deployed the ACPI\_FORMAT\_UINT64 helper macro to simplify the debug and error output of 64-bit integers. This macro replaces the HIDWORD and LODWORD macros for dumping these integers.

Updated the implementation of the Stall() operator to only call AcpiOsStall(), and also return an error if the operand is larger than 255. This preserves the required behavior of not relinquishing the processor, as would happen if AcpiOsSleep() was called for "long stalls".

Constructs of the form "Store(LocalX,LocalX)" where LocalX is not initialized are now treated as NOOPs.

Cleaned up a handful of warnings during 64-bit generation.

Fixed a reported error where an incorrect GPE number was passed to the GPE dispatch handler. This value is only used for error output, however. Used this opportunity to clean up and streamline the GPE dispatch code.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The



debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (20031002):

Non-Debug Version: 74.1K Code, 9.7K Data, 83.8K Total

Debug Version: 157.9K Code, 64.8K Data, 222.7K Total

Current Release:

Non-Debug Version: 74.4K Code, 10.1K Data, 84.5K Total

Debug Version: 158.3K Code, 65.0K Data, 223.3K Total

## 2) iASL Compiler/Disassembler:

Updated the iASL compiler to return an error if the operand to the Stall() operator is larger than 255.

-----  
02 October 2003. Summary of changes for version 20031002:

### 1) ACPI CA Core Subsystem:

Fixed a problem with Index Fields where the index was not incremented for fields that require multiple writes to the index/data registers (Fields that are wider than the data register.)

Fixed a problem with all Field objects where a write could go beyond the end-of-field if the field was larger than the access granularity and therefore required multiple writes to complete the request. An extra write beyond the end of the field could happen inadvertently.

Fixed a problem with Index Fields where a BUFFER\_OVERFLOW error would incorrectly be returned if the width of the Data Register was larger than the specified field access width.

Completed fixes for LoadTable() and Unload() and verified their operation. Implemented full support for the "DdbHandle" object throughout the ACPI CA subsystem.

Implemented full support for the MADT and ECDDT tables in the ACPI CA header files. Even though these tables are not directly



consumed by ACPI CA, the header definitions are useful for ACPI device drivers.

Integrated resource descriptor fixes posted to the Linux ACPI list. This included checks for minimum descriptor length, and support for trailing NULL strings within descriptors that have optional string elements.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (20030918):

Non-Debug Version: 73.9K Code, 9.7K Data, 83.6K Total

Debug Version: 157.3K Code, 64.5K Data, 221.8K Total

Current Release:

Non-Debug Version: 74.1K Code, 9.7K Data, 83.8K Total

Debug Version: 157.9K Code, 64.8K Data, 222.7K Total

## 2) iASL Compiler:

Implemented detection of non-ASCII characters within the input source ASL file. This catches attempts to compile binary (AML) files early in the compile, with an informative error message.

Fixed a problem where the disassembler would fault if the output filename could not be generated or if the output file could not be opened.

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18 September 2003. Summary of changes for version 20030918:

## 1) ACPI CA Core Subsystem:

Found and

fixed a longstanding problem with the late execution of the various deferred AML opcodes (such as Operation Regions, Buffer Fields, Buffers, and Packages). If the name string specified for the name of the new object placed the object in a scope other than the current scope, the initialization/execution



of the opcode failed. The solution to this problem was to implement a mechanism where the late execution of such opcodes does not attempt to lookup/create the name a second time in an incorrect scope. This fixes the "region size computed incorrectly" problem.

Fixed a call to AcpiHwRegisterWrite in hwregs.c that was causing a Global Lock AE\_BAD\_PARAMETER error.

Fixed several 64-bit issues with prototypes, casting and data types.

Removed duplicate prototype from acdisasm.h

Fixed an issue involving EC Operation Region Detach (Shaohua Li)

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced

by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 73.7K Code, 9.7K Data, 83.4K Total

Debug Version: 156.9K Code, 64.2K Data, 221.1K Total

Current Release:

Non-Debug Version: 73.9K Code, 9.7K Data, 83.6K Total

Debug Version: 157.3K Code, 64.5K Data, 221.8K Total

## 2) Linux:

Fixed the AcpiOsSleep implementation in osunixxf.c to pass the correct sleep time in seconds.

-----  
14 July 2003. Summary of changes for version 20030619:

### 1) ACPI CA Core Subsystem:

Parse SSDTs in order discovered, as opposed to reverse order (Hrvoje Habjanic)



Fixes from FreeBSD and NetBSD. (Frank van  
der Linden, Thomas  
Klausner,  
Nate Lawson)

## 2) Linux:

Dynamically allocate SDT list (suggested by Andi Kleen)

proc function return value cleanups (Andi Kleen)

Correctly handle NMI watchdog during long stalls (Andrew Morton)

Make it so acpism=force works (reported by Andrew Morton)

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19 June 2003. Summary of changes for version 20030619:

### 1) ACPI CA Core Subsystem:

Fix To/FromBCD, eliminating the need for an arch-specific #define.

Do not acquire a semaphore in the S5 shutdown path.

Fix ex\_digits\_needed for 0. (Takayoshi Kochi)

Fix sleep/stall code reversal. (Andi Kleen)

Revert a change having to do with control method calling semantics.

## 2) Linux:

acpihp update (Takayoshi Kochi)

Export acpi\_disabled for sonypi (Stelian Pop)

Mention acpism=force in config help

Re-add acpitbl.c and acpism=force. This improves backwards compatibility and also cleans up the code to a significant degree.

Add ASUS Value-add driver (Karol Kozimor  
and Julien Lerouge)



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22 May 2003. Summary of changes for version 20030522:

1) ACPI CA Core Subsystem:

Found and fixed a reported problem where an AE\_NOT\_FOUND error occurred occasionally during \_BST evaluation. This turned out to be an Owner ID allocation issue where a called method did not get a new ID assigned to it. Eventually, (after 64k calls), the Owner ID UINT16 would wraparound so that the ID would be the same as the caller's and the called method would delete the caller's namespace.

Implemented extended error reporting for control methods that are aborted due to a run-time exception. Output includes the exact AML instruction that caused the method abort, a dump of the method locals and arguments at the time of the abort, and a trace of all nested control method calls.

Modified the interpreter to allow the creation of buffers of zero length from the AML code. Implemented new code to ensure that no attempt is made to actually allocate a memory buffer (of length zero) - instead, a simple buffer object with a NULL buffer pointer and length zero is created. A warning is no longer issued when the AML attempts to create a zero-length buffer.

Implemented a workaround for the "leading asterisk issue" in \_HIDs, \_UIDs, and \_CIDs in the AML interpreter. One leading asterisk is automatically removed if present in any HID, UID, or CID strings. The iASL compiler will still flag this asterisk as an error, however.

Implemented full support for \_CID methods that return a package of multiple CIDs (Compatible IDs). The AcpiGetObjectInfo() interface now additionally returns a device \_CID list if present. This required a change to the external interface in order to pass an ACPI\_BUFFER object as a parameter since the \_CID list is of variable length.

Fixed a problem with the new AE\_SAME\_HANDLER exception where handler initialization code did not know about this exception.

Code and Data Size: Current and previous core subsystem library

sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The



debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (20030509):

Non-Debug Version: 73.4K Code, 9.7K Data, 83.1K Total

Debug Version: 156.1K Code, 63.9K Data, 220.0K Total

Current Release:

Non-Debug Version: 73.7K Code, 9.7K Data, 83.4K Total

Debug Version: 156.9K Code, 64.2K Data, 221.1K Total

## 2) Linux:

Fixed a bug in which we would reinitialize the ACPI interrupt after it was already working, thus disabling all ACPI and the IRQs for any other device sharing the interrupt. (Thanks to Stian Jordet)

Toshiba driver update (John Belmonte)

Return

only 0 or 1 for our interrupt handler status (Andrew Morton)

## 3) iASL Compiler:

Fixed a reported problem where multiple (nested) ElseIf() statements were not handled correctly by the compiler, resulting in incorrect warnings and incorrect AML code. This was a problem in both the ASL parser and the code generator.

## 4) Documentation:

Added changes to existing interfaces, new exception codes, and new text concerning reference count object management versus garbage collection.

-----  
09 May 2003. Summary of changes for version 20030509.

### 1) ACPI CA Core Subsystem:

Changed the subsystem initialization sequence to hold off



installation of address space handlers until the hardware has been initialized and the system has entered ACPI mode. This is because the installation of space handlers can cause \_REG methods to be run. Previously, the \_REG methods could potentially be run before ACPI mode was enabled.

Fixed some memory leak issues related to address space handler and notify handler installation. There were some problems with the reference count mechanism caused by the fact that the handler objects are shared across several namespace objects.

Fixed a reported problem where reference counts within the namespace were not properly updated when named objects created by method execution were deleted.

Fixed a reported problem where multiple SSDTs caused a deletion issue during subsystem termination. Restructured the table data structures to simplify the linked lists and the related code.

Fixed a problem where the table ID associated with secondary tables (SSDTs) was not being propagated into the namespace objects created by those tables. This would only present a problem for tables that are unloaded at run-time, however.

Updated AcpiOsReadable and AcpiOsWritable to use the ACPI\_SIZE type as the length parameter (instead of UINT32).

Solved a long-standing problem where an ALREADY\_EXISTS error appears on various systems.

This problem could happen when there are multiple PCI\_Config operation regions under a single PCI root bus. This doesn't happen very frequently, but there are some systems that do this in the ASL.

Fixed a reported problem where the internal DeleteNode function was incorrectly handling the case where a namespace node was the first in the parent's child list, and had additional peers (not the only child, but first in the list of children.)

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.



#### Previous Release

Non-Debug Version: 73.7K Code, 9.5K Data,  
83.2K Total

Debug Version: 156.1K Code, 63.6K Data, 219.7K Total

#### Current Release:

Non-Debug Version: 73.4K Code, 9.7K Data, 83.1K Total

Debug Version: 156.1K Code, 63.9K Data, 220.0K Total

#### 2) Linux:

Allow ":" in OS override string (Ducrot Bruno)

Kobject fix (Greg KH)

#### 3 iASL Compiler/Disassembler:

Fixed a problem in the generation of the C source code files (AML is emitted in C source statements for BIOS inclusion) where the Ascii dump that appears within a C comment at the end of each line could cause a compile time error if the AML sequence happens to have an open comment or close comment sequence embedded.

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24 April 2003. Summary of changes for version 20030424.

#### 1) ACPI CA Core Subsystem:

Support for big-endian systems has been implemented. Most of the support has been invisibly added behind big-endian versions of the ACPI\_MOVE\_\* macros.

Fixed a problem in AcpiHwDisableGpeBlock() and  
AcpiHwClearGpeBlock()

where an incorrect offset was passed to the  
low level hardware write routine. The offset parameter was  
actually eliminated from the low level read/write routines because  
they had become obsolete.

Fixed a problem where a handler object was deleted twice during  
the removal of a fixed event handler.

#### 2) Linux:



A fix for SMP systems with link devices was contributed by

Compaq's Dan Zink.

(2.5) Return whether we handled the interrupt in our IRQ handler.  
(Linux ISRs no longer return void, so we can propagate the handler  
return value from the ACPI CA core back to the OS.)

### 3) Documentation:

The ACPI CA Programmer Reference has been updated to reflect new  
interfaces and changes to existing interfaces.

-----  
28 March 2003. Summary of changes for version 20030328.

#### 1) ACPI CA Core Subsystem:

The GPE Block Device support has been completed. New interfaces  
are AcpiInstallGpeBlock and AcpiRemoveGpeBlock. The Event  
interfaces (enable, disable,  
clear, getstatus) have been split  
into separate interfaces for Fixed Events and General Purpose  
Events (GPEs) in order to support GPE Block Devices properly.

Fixed a problem where the error message "Failed to acquire  
semaphore" would appear during operations on the embedded  
controller (EC).

Code and Data Size: Current core subsystem library sizes are shown  
below. These are the code and data sizes for the acpica.lib  
produced by the Microsoft Visual C++ 6.0 compiler, and these  
values do not include any ACPI driver or OSPM code. The debug  
version of the code includes the debug output trace mechanism and  
has a much larger code and data size. Note that these values will  
vary depending on the efficiency of the compiler and the compiler  
options used during generation.

#### Previous Release

Non-Debug Version: 72.3K Code, 9.5K Data, 81.8K Total

Debug Version: 154.0K Code, 63.4K Data, 217.4K Total

#### Current Release:

Non-Debug Version: 73.7K Code, 9.5K Data, 83.2K

Total

Debug Version: 156.1K Code, 63.6K Data, 219.7K Total



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28 February 2003. Summary of changes for version 20030228.

#### 1) ACPI CA Core Subsystem:

The GPE handling and dispatch code has been completely overhauled in preparation for support of GPE Block Devices (ID ACPI0006).

This affects internal data structures and code only; there should be no differences visible externally. One new file has been added, evgpeblk.c

The FADT fields GPE0\_BLK\_LEN and GPE1\_BLK\_LEN are now the only fields that are used to determine the GPE block lengths. The REGISTER\_BIT\_WIDTH field of the X\_GPEX\_BLK extended address structures are ignored. This is per the ACPI specification but it isn't very clear. The full 256 Block 0/1 GPEs are now supported (the use of REGISTER\_BIT\_WIDTH limited the number of GPEs to 128).

In the SCI interrupt handler, removed the read of the PM1\_CONTROL register to look at the SCI\_EN bit. On some machines, this read causes

an SMI event and greatly slows down SCI events. (This may in fact be the cause of slow battery status response on some systems.)

Fixed a problem where a store of a NULL string to a package object could cause the premature deletion of the object. This was seen during execution of the battery \_BIF method on some systems, resulting in no battery data being returned.

Added AcpiWalkResources interface to simplify parsing of resource lists.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 72.0K Code, 9.5K Data,



81.5K Total

Debug Version: 153.0K Code, 62.9K Data, 215.9K Total

Current Release:

Non-Debug Version: 72.3K Code, 9.5K Data, 81.8K Total

Debug Version: 154.0K Code, 63.4K Data, 217.4K Total

## 2) Linux

S3 fixes (Ole Rohne)

Update ACPI PHP driver with to use new acpi\_walk\_resource API  
(Bjorn Helgaas)

Add S4BIOS support (Pavel Machek)

Map in entire table before performing checksum (John Stultz)

Expand the mem= cmdline to allow the specification of reserved and  
ACPI DATA blocks (Pavel Machek)

Never use ACPI on VISWS

Fix derive\_pci\_id (Ducrot Bruno, Alvaro Lopez)

Revert a change that allowed P\_BLK lengths to be 4 or 5. This is  
causing us to think that some systems support C2 when they really  
don't.

Do not count processor objects for non-present CPUs (Thanks to  
Dominik Brodowski)

## 3) iASL Compiler:

Fixed a problem where ASL include files could not be found and  
opened.

Added support for the \_PDC reserved name.

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22

January 2003. Summary of changes for version 20030122.

## 1) ACPI CA Core Subsystem:



Added a check for constructs of the form: Store (Local0, Local0) where Local0 is not initialized. Apparently, some BIOS programmers believe that this is a NOOP. Since this store doesn't do anything anyway, the new prototype behavior will ignore this error. This is a case where we can relax the strict checking in the interpreter in the name of compatibility.

## 2) Linux

The AcpiSrc Source Conversion Utility has been released with the Linux package for the first time. This is the utility that is used to convert the ACPI CA base source code to the Linux version.

(Both) Handle P\_BLK lengths shorter than 6 more gracefully

(Both) Move more headers to include/acpi, and delete an unused header.

(Both) Move drivers/acpi/include directory to include/acpi

(Both) Boot functions don't use cmdline, so don't pass it around

(Both) Remove include of unused header (Adrian Bunk)

(Both) acpiphp.h includes both linux/acpi.h and acpi\_bus.h. Since the former now also includes the latter, acpiphp.h only needs the one, now.

(2.5) Make it possible to select method of bios restoring after S3 resume. [=> no more ugly ifdefs] (Pavel Machek)

(2.5) Make proc write interfaces work (Pavel Machek)

(2.5) Properly init/clean up in cpufreq/acpi (Dominik Brodowski)

(2.5) Break out ACPI Perf code into its own module, under cpufreq (Dominik Brodowski)

(2.4) S4BIOS support (Ducrot Bruno)

(2.4) Fix acpiphp\_glue.c for latest ACPI struct changes (Sergio Visinoni)

## 3) iASL Compiler:



Added support to disassemble SSDT and PSDTs.

Implemented support to obtain SSDTs from the Windows registry if available.

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09 January 2003. Summary of changes for version 20030109.

1) ACPI CA Core Subsystem:

Changed the behavior of the internal Buffer-to-String conversion function. The current ACPI specification states that the contents of the buffer are "converted to a string of two-character hexadecimal numbers, each separated by a space". Unfortunately, this definition is not backwards compatible with existing ACPI 1.0 implementations (although the behavior was not defined in the ACPI 1.0 specification). The new behavior simply copies data from the buffer to the string until a null character is found or the end of the buffer is reached. The new String object is always null terminated. This problem was seen during the generation of \_BIF battery data where incorrect strings were returned for battery type, etc. This will also require an errata to the ACPI specification.

Renamed all instances of NATIVE\_UINT and NATIVE\_INT to ACPI\_NATIVE\_UINT and ACPI\_NATIVE\_INT, respectively.

Copyright in all module headers (both Linux and non-Linux) has been updated to 2003.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release

Non-Debug Version: 72.0K Code, 9.5K Data, 81.5K Total

Debug Version: 153.0K Code, 62.9K Data, 215.9K Total

Current Release:

Non-Debug Version: 72.0K Code, 9.5K Data, 81.5K Total



Debug Version: 153.0K Code, 62.9K Data, 215.9K Total

## 2) Linux

Fixed an oops on module insertion/removal (Matthew Tippet)

(2.4) Fix to handle dynamic size of mp\_irqs (Joerg Prante)

(2.5) Replace pr\_debug (Randy Dunlap)

(2.5) Remove usage of CPUFREQ\_ALL\_CPUS (Dominik Brodowski)

(Both) Eliminate spawning of thread from timer callback, in favor of schedule\_work()

(Both) Show Lid status in /proc (Zdenek OGAR Skalak)

(Both) Added define for Fixed Function HW region (Matthew Wilcox)

(Both) Add missing statics to button.c (Pavel Machek)

Several changes have been made to the source code translation utility that generates the Linux Code in order to make the code more "Linux-like":

All typedefs on structs and unions have been removed in keeping with the Linux coding style.

Removed the non-Linux SourceSafe module revision number from each module header.

Completed major overhaul of symbols to be lowercase for linux. Doubled the number of symbols that are lowercase.

Fixed a problem where identifiers within procedure headers and within quotes were not fully lower cased (they were left with a starting capital.)

Some C macros whose only purpose is to allow the generation of 16-bit code are now completely removed in the Linux code, increasing readability and maintainability.

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12 December 2002. Summary of changes for version 20021212.



#### 1) ACPI CA Core Subsystem:

Fixed a problem where the creation of a zero-length AML Buffer would cause a fault.

Fixed a problem where a Buffer object that pointed to a static AML buffer (in an ACPI table) could inadvertently be deleted, causing memory corruption.

Fixed a problem where a user buffer (passed in to the external ACPI CA interfaces) could be overwritten if the buffer was too small to complete the operation, causing memory corruption.

Fixed a problem in the Buffer-to-String conversion code where a string of length one was always returned, regardless of the size of the input Buffer object.

Removed the `NATIVE_CHAR` data type across the entire source due to lack of need and lack of consistent use.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the `acpica.lib` produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 72.1K Code, 9.5K Data, 81.6K Total

Debug Version: 152.7K Code, 62.7K Data, 215.4K Total

#### Current Release:

Non-Debug Version: 72.0K Code, 9.5K Data, 81.5K Total

Debug Version: 153.0K Code, 62.9K Data, 215.9K Total

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05 December 2002. Summary of changes for version 20021205.

#### 1) ACPI CA Core Subsystem:

Fixed a problem where a store to a String or Buffer object could cause corruption of the DSDT if the object type being stored was the same as the target object type and the length of the object



being stored was equal to or smaller than the original (existing) target object. This was seen to cause corruption of battery \_BIF buffers if the \_BIF method modified the buffer on the fly.

Fixed a problem where an internal error was generated if a control method invocation was used in an OperationRegion, Buffer, or Package declaration. This was caused by the deferred parsing of the control method and thus the deferred creation of the internal method object. The solution to this problem was to create the internal method object at the moment the method is encountered in the first pass - so that subsequent references to the method will be able to obtain the required parameter count and thus properly parse the method invocation. This problem presented itself as an AE\_AML\_INTERNAL during the pass 1 parse phase during table load.

Fixed a problem where the internal String object copy routine did not always allocate sufficient memory for the target String object and caused memory corruption. This problem was seen to cause "Allocation already present in list!" errors as memory allocation became corrupted.

Implemented a new function for the evaluation of namespace objects that allows the specification of the allowable return object types.

This simplifies a lot of code that checks for a return object of one or more specific objects returned from the evaluation (such as \_STA, etc.) This may become an external function if it would be useful to ACPI-related drivers.

Completed another round of prefixing #defines with "ACPI\_" for clarity.

Completed additional code restructuring to allow more modular linking for iASL compiler and AcpiExec. Several files were split creating new files. New files: nsparse.c dsinit.c evgpe.c

Implemented an abort mechanism to terminate an executing control method via the AML debugger. This feature is useful for debugging control methods that depend (wait) for specific hardware responses.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism



and

has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 71.4K Code, 9.0K Data, 80.4K Total

Debug Version: 152.9K Code, 63.3K Data, 216.2K Total

#### Current Release:

Non-Debug Version: 72.1K Code, 9.5K Data, 81.6K Total

Debug Version: 152.7K Code, 62.7K Data, 215.4K Total

## 2) iASL Compiler/Disassembler

Fixed a compiler code generation problem for "Interrupt" Resource Descriptors. If specified in the ASL, the optional "Resource Source Index" and "Resource Source" fields were not inserted into the correct location within the AML resource descriptor, creating an invalid descriptor.

Fixed a disassembler problem for "Interrupt" resource descriptors. The optional "Resource Source Index" and "Resource Source" fields were ignored.

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22 November 2002. Summary  
of changes for version 20021122.

### 1) ACPI CA Core Subsystem:

Fixed a reported problem where an object stored to a Method Local or Arg was not copied to a new object during the store - the object pointer was simply copied to the Local/Arg. This caused all subsequent operations on the Local/Arg to also affect the original source of the store operation.

Fixed a problem where a store operation to a Method Local or Arg was not completed properly if the Local/Arg contained a reference (from RefOf) to a named field. The general-purpose store-to-namespace-node code is now used so that this case is handled automatically.

Fixed a problem where the internal object copy routine would cause a protection fault if the object being copied was a Package and contained either 1) a NULL package element or 2) a nested sub-



package.

Fixed a problem with the GPE initialization that resulted from an ambiguity in the ACPI specification. One section of the specification states that both the address and length of the GPE block must be zero if the block is not supported. Another section implies that only the address need be zero if the block is not supported. The code has been changed so that both the address and the length must be non-zero to indicate a valid GPE block (i.e., if either the address or the length is zero, the GPE block is invalid.)

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 71.3K Code, 9.0K Data, 80.3K Total

Debug Version: 152.7K Code, 63.2K Data, 215.5K Total

#### Current Release:

Non-Debug Version: 71.4K Code, 9.0K Data, 80.4K Total

Debug Version: 152.9K Code, 63.3K Data, 216.2K Total

## 2) Linux

Cleaned up EC driver. Exported an external EC read/write interface. By going through this, other drivers (most notably sonypi) will be able to serialize access to the EC.

## 3) iASL Compiler/Disassembler

Implemented support to optionally generate include files for both ASM and C (the -i switch). This simplifies BIOS development by automatically creating include files that contain external declarations for the symbols that are created within the

(optionally generated) ASM and C AML source files.

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15 November 2002. Summary of changes for version 20021115.

1) ACPI CA Core Subsystem:

Fixed a memory leak problem where an error during resolution of

method arguments during a method invocation from another method failed to cleanup properly by deleting all successfully resolved argument objects.

Fixed a problem

where the target of the Index() operator was not correctly constructed if the source object was a package. This problem has not been detected because the use of a target operand with Index() is very rare.

Fixed a problem with the Index() operator where an attempt was made to delete the operand objects twice.

Fixed a problem where an attempt was made to delete an operand twice during execution of the CondRefOf() operator if the target did not exist.

Implemented the first of perhaps several internal create object functions that create and initialize a specific object type. This consolidates duplicated code wherever the object is created, thus shrinking the size of the subsystem.

Implemented improved debug/error messages for errors that occur during nested method invocations. All executing method pathnames are displayed (with the error) as the call stack is unwound - thus simplifying debug.

Fixed a problem introduced in the 10/02 release that caused premature deletion of a buffer object if a buffer was used as an ASL operand where an integer operand is required (Thus causing an implicit object conversion from Buffer to Integer.) The change in the 10/02 release was attempting to fix a memory leak (albeit incorrectly.)

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler



options used during generation.

#### Previous Release

Non-Debug Version: 71.9K Code, 9.1K Data, 81.0K Total

Debug Version: 153.1K Code, 63.3K Data, 216.4K Total

#### Current Release:

Non-Debug Version: 71.3K Code, 9.0K Data, 80.3K Total

Debug Version: 152.7K Code, 63.2K

Data, 215.5K Total

## 2) Linux

Changed the implementation of the ACPI semaphores to use `down()` instead of `down_interruptable()`. It is important that the execution of ACPI control methods not be interrupted by signals. Methods must run to completion, or the system may be left in an unknown/unstable state.

Fixed a compilation error when `CONFIG_SOFTWARE_SUSPEND` is not set.  
(Shawn Starr)

## 3) iASL Compiler/Disassembler

Changed the default location of output files. All output files are now placed in the current directory by default instead of in the directory of the source file. This change may affect some existing makefiles, but it brings the behavior of the compiler in line with other similar tools. The location of the output files can be overridden with the `-p` command line switch.

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11 November 2002. Summary of changes for version 20021111.

0) ACPI Specification 2.0B is released and is now available at:  
<http://www.acpi.info/index.html>

### 1)

ACPI CA Core Subsystem:

Implemented support for the ACPI 2.0 SMBus Operation Regions. This includes the early detection and handoff of the request to the SMBus region handler (avoiding all of the complex field



support code), and support for the bidirectional return packet from an SMBus write operation. This paves the way for the development of SMBus drivers in each host operating system.

Fixed a problem where the semaphore WAIT\_FOREVER constant was defined as 32 bits, but must be 16 bits according to the ACPI specification. This had the side effect of causing ASL Mutex/Event timeouts even though the ASL code requested a wait forever. Changed all internal references to the ACPI timeout parameter to 16 bits to prevent future problems. Changed the name of WAIT\_FOREVER to ACPI\_WAIT\_FOREVER.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values

do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 71.4K Code, 9.0K Data, 80.4K Total

Debug Version: 152.3K Code, 63.0K Data, 215.3K Total

#### Current Release:

Non-Debug Version: 71.9K Code, 9.1K Data, 81.0K Total

Debug Version: 153.1K Code, 63.3K Data, 216.4K Total

## 2) Linux

Module loading/unloading fixes (John Cagle)

## 3) iASL Compiler/Disassembler

Added support for the SMBBlockProcessCall keyword (ACPI 2.0)

Implemented support for the disassembly of all SMBus protocol keywords (SMBQuick, SMBWord, etc.)

-----  
01 November 2002. Summary of changes for version 20021101.

### 1) ACPI CA Core Subsystem:



Fixed a problem where platforms that have a GPE1 block but no GPE0 block were not handled correctly. This resulted in a "GPE overlap" error message. GPE0 is no longer required.

Removed code added in the previous release that inserted nodes into the namespace in alphabetical order. This caused some side-effects on various machines. The root cause of the problem is still under investigation since in theory, the internal ordering of the namespace nodes should not matter.

Enhanced error reporting for the case where a named object is not found during control method execution. The full ACPI namepath (name reference) of the object that was not found is displayed in this case.

Note: as a result of the overhaul of the namespace object types in the previous release, the namespace nodes for the predefined scopes (`_TZ`, `_PR`, etc.) are now of the type `ACPI_TYPE_LOCAL_SCOPE` instead of `ACPI_TYPE_ANY`. This simplifies the namespace management code but may affect code that walks the namespace tree looking for specific object types.

#### Code

and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the `acpica.lib` produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 70.7K Code, 8.6K Data, 79.3K Total

Debug Version: 151.7K Code, 62.4K Data, 214.1K Total

#### Current Release:

Non-Debug Version: 71.4K Code, 9.0K Data, 80.4K Total

Debug Version: 152.3K Code, 63.0K Data, 215.3K Total

## 2) Linux

Fixed a problem introduced in the previous release where the Processor and Thermal objects were not recognized and installed in `/proc`. This was related to the scope type change described above.



### 3) iASL Compiler/Disassembler

#### Implemented

the -g option to get all of the required ACPI tables from the registry and save them to files (Windows version of the compiler only.) The required tables are the FADT, FACS, and DSDT.

Added ACPI table checksum validation during table disassembly in order to catch corrupted tables.

-----  
22 October 2002. Summary of changes for version 20021022.

#### 1) ACPI CA Core Subsystem:

Implemented a restriction on the Scope operator that the target must already exist in the namespace at the time the operator is encountered (during table load or method execution). In other words, forward references are not allowed and Scope() cannot create a new object. This changes the previous behavior where the interpreter would create the name if not found. This new behavior correctly enables the search-to-root algorithm during namespace lookup of the target name. Because of this upsearch, this fixes the known Compaq \_SB\_.OKEC problem and makes both the AML interpreter and iASL compiler compatible with other ACPI implementations.

Completed a major overhaul of the internal ACPI object types for the ACPI Namespace and the associated operand objects. Many of these types had become obsolete with the introduction of the two-pass namespace load. This cleanup simplifies the code and makes the entire namespace load mechanism much clearer and easier to understand.

Improved debug output for tracking scope opening/closing to help diagnose scoping issues. The old scope name as well as the new scope name are displayed. Also improved error messages for problems with ASL Mutex objects and error messages for GPE problems.

Cleaned up the namespace dump code, removed obsolete code.

All string output (for all namespace/object dumps) now uses the common ACPI string output procedure which handles escapes properly and does not emit non-printable characters.



Fixed some issues with constants in the 64-bit version of the local C library (utclib.c)

## 2) Linux

EC Driver: No longer attempts to acquire the Global Lock at interrupt level.

## 3) iASL Compiler/Disassembler

Implemented ACPI 2.0B grammar change that disallows all Type 1 and 2 opcodes outside of a control method. This means that the "executable" operators (versus the "namespace" operators) cannot be used at the table level; they can only be used within a control method.

Implemented the restriction on the Scope() operator where the target must already exist in the namespace at the time the operator is encountered (during ASL compilation). In other words, forward references are not allowed and Scope() cannot create a new object. This makes the iASL compiler compatible with other ACPI implementations and makes the Scope() implementation adhere to the ACPI specification.

Fixed a problem where namepath optimization for the Alias operator was optimizing the wrong path (of the two namepaths.) This caused a "Missing alias link" error message.

Fixed a problem where an "unknown reserved name" warning could be incorrectly generated for names like "\_SB" when the trailing underscore is not used in the original ASL.

Fixed a problem where the reserved name check did not handle NamePaths with multiple NameSegs correctly. The first nameseg of the NamePath was examined instead of the last NameSeg.

-----  
02 October 2002. Summary of changes for this release.

## 1) ACPI CA Core Subsystem version 20021002:



Fixed a problem where a store/copy of a string to an existing string did not always set the string length properly in the String object.

Fixed a reported problem with the ToString operator where the behavior was identical to the ToHexString operator instead of just simply converting a raw buffer to a string data type.

Fixed a problem where CopyObject and the other "explicit" conversion operators were not updating the internal namespace node type as part of the store operation.

Fixed a memory leak during implicit source operand conversion where the original object was not deleted if it was converted to a new object of a different type.

Enhanced error messages for all problems associated with namespace lookups. Common procedure generates and prints the lookup name as well as the formatted status.

Completed implementation of a new design for the Alias support within the namespace. The existing design did not handle the case where a new object was assigned to one of the two names due to the use of an explicit conversion operator, resulting in the two names pointing to two different objects. The new design simply points the Alias name to the original name node - not to the object. This results in a level of indirection that must be handled in the name resolution mechanism.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 69.6K Code, 8.3K Data, 77.9K Total

Debug Version: 150.0K Code, 61.7K Data, 211.7K Total

#### Current Release:

Non-Debug Version: 70.7K Code, 8.6K Data, 79.3K Total

Debug Version: 151.7K Code, 62.4K Data, 214.1K Total



## 2) Linux

Initialize thermal driver's timer before it is used. (Knut Neumann)

Allow handling negative celsius values. (Kochi Takayoshi)

Fix thermal management and make trip points. R/W (Pavel Machek)

Fix /proc/acpi/sleep. (P. Christeas)

IA64 fixes. (David Mosberger)

Fix reversed logic in blacklist code. (Sergio Monteiro Basto)

Replace ACPI\_DEBUG define with ACPI\_DEBUG\_OUTPUT. (Dominik Brodowski)

## 3) iASL Compiler/Disassembler

Clarified  
some warning/error messages.

-----  
18 September 2002. Summary of changes for this release.

### 1) ACPI CA Core Subsystem version 20020918:

Fixed a reported problem with reference chaining (via the Index() and RefOf() operators) in the ObjectType() and SizeOf() operators. The definition of these operators includes the dereferencing of all chained references to return information on the base object.

Fixed a problem with stores to indexed package elements - the existing code would not complete the store if an "implicit conversion" was not performed. In other words, if the existing object (package element) was to be replaced completely, the code didn't handle this case.

Relaxed typechecking on the ASL "Scope" operator to allow the target name to refer to an object of type Integer, String, or Buffer, in addition to the scoping object types (Device, predefined Scopes, Processor, PowerResource, and ThermalZone.) This allows existing AML code that has



workarounds for a bug in

Windows to function properly. A warning is issued, however. This affects both the AML interpreter and the iASL compiler. Below is an example of this type of ASL code:

```
Name(DEB,0x00)
Scope(DEB)
{
```

Fixed some reported problems with 64-bit integer support in the local implementation of C library functions (clib.c)

## 2) Linux

Use ACPI fix map region instead of IOAPIC region, since it is undefined in non-SMP.

Ensure that the SCI has the proper polarity and trigger, even on systems that do not have an interrupt override entry in the MADT.

## 2.5 big driver reorganization (Pat Mochel)

Use early table mapping code from acpitables.c (Andi Kleen)

New blacklist entries (Andi Kleen)

Blacklist improvements. Split blacklist code out into a separate file. Move checking the blacklist to very early. Previously, we would use ACPI tables, and then halfway through init, check the blacklist -- too late. Now, it's early enough to completely fall-back to non-ACPI.

## 3)

iASL Compiler/Disassembler version 20020918:

Fixed a problem where the typechecking code didn't know that an alias could point to a method. In other words, aliases were not being dereferenced during typechecking.

-----  
29 August 2002. Summary of changes for this release.

## 1) ACPI CA Core Subsystem Version 20020829:

If the target of a Scope() operator already exists, it must be an



object type that actually opens a scope -- such as a Device, Method, Scope, etc. This is a fatal runtime error. Similar error check has been added to the iASL compiler also.

Tightened up the namespace load to disallow multiple names in the same scope. This previously was allowed if both objects were of the same type. (i.e., a lookup was the same as entering a new name).

## 2) Linux

Ensure that the ACPI interrupt has the proper trigger and polarity.

local\_irq\_disable is extraneous. (Matthew Wilcox)

Make "acpi=off" actually do what it says, and not use the ACPI interpreter \*or\* the tables.

Added arch-neutral support for parsing SLIT and SRAT tables (Kochi Takayoshi)

## 3) iASL Compiler/Disassembler Version 20020829:

Implemented namepath optimization for name declarations. For example, a declaration like "Method (\\_SB\_.ABCD)" would get optimized to "Method (ABCD)" if the declaration is within the \\_SB\_ scope. This optimization is in addition to the named reference path optimization first released in the previous version. This would seem to complete all possible optimizations for namepaths within the ASL/AML.

If the target of a Scope() operator already exists, it must be an object type that actually opens a scope -- such as a Device, Method, Scope, etc.

Implemented a check and warning for unreachable code in the same block below a Return() statement.

Fixed a problem where the listing file was not generated if the compiler aborted if the maximum error count was exceeded (200).

Fixed a problem where the typechecking of method return values was broken. This includes the check for a return value when the



method is invoked as a TermArg (a return value is expected.)

Fixed a reported problem where EOF conditions during a quoted string or comment caused a fault.

-----  
15 August 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem Version 20020815:

Fixed a reported problem where a Store to a method argument that contains a reference did not perform the indirect store correctly. This problem was created during the conversion to the new reference object model - the indirect store to a method argument code was not updated to reflect the new model.

Reworked the ACPI mode change code to better conform to ACPI 2.0, handle corner cases, and improve code legibility (Kochi Takayoshi)

Fixed a problem with the pathname parsing for the carat (^) prefix. The heavy use of the carat operator by the new namepath optimization in the iASL compiler uncovered a problem with the AML interpreter handling of this prefix. In the case where one or more carats precede a single nameseg, the nameseg was treated as standalone and the search rule (to root) was inadvertently applied. This could cause both the iASL compiler and the interpreter to find the wrong object or to miss the error that should occur if the object does not exist at that exact pathname.

Found and fixed the problem where the HP Pavilion DSDT would not load. This was a relatively minor tweak to the table loading code (a problem caused by the unexpected encounter with a method invocation not within a control method), but it does not solve the overall issue of the execution of AML code at the table level. This investigation is still ongoing.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.



#### Previous Release

Non-Debug Version: 69.1K Code, 8.2K Data, 77.3K Total

Debug Version: 149.4K Code, 61.6K Data, 211.0K Total

#### Current Release:

Non-Debug Version: 69.6K Code, 8.3K Data, 77.9K Total

Debug Version: 150.0K Code, 61.7K Data, 211.7K Total

## 2) Linux

Remove redundant slab.h include (Brad Hards)

Fix several bugs in thermal.c (Herbert Nachtnebel)

Make CONFIG\_ACPI\_BOOT work properly (Pavel Machek)

Change acpi\_system\_suspend to use updated irq functions (Pavel Machek)

Export acpi\_get\_firmware\_table (Matthew Wilcox)

Use proper root proc entry for ACPI (Kochi Takayoshi)

Fix early-boot table parsing (Bjorn Helgaas)

## 3) iASL Compiler/Disassembler

Reworked the compiler options to make them more consistent and to use two-letter

options where appropriate. We were running out of sensible letters. This may break some makefiles, so check the current options list by invoking the compiler with no parameters.

Completed the design and implementation of the ASL namepath optimization option for the compiler. This option optimizes all references to named objects to the shortest possible path. The first attempt tries to utilize a single nameseg (4 characters) and the "search-to-root" algorithm used by the interpreter. If that cannot be used (because either the name is not in the search path or there is a conflict with another object with the same name), the pathname is optimized using the carat prefix (usually a shorter string than specifying the entire path from the root.)

Implemented support to obtain the DSDT from the Windows registry (when the disassembly option is specified with no input file).

Added this code as the implementation for AcpiOsTableOverride in the Windows OSL. Migrated the 16-bit code (used



in the AcpiDump utility) to scan memory for the DSDT to the AcpiOsTableOverride function in the DOS OSL to make the disassembler truly OS independent.

Implemented a new option to disassemble and compile in one step. When used without an input filename, this option will grab the DSDT from the local machine, disassemble it, and compile it in one step.

Added a warning message for invalid escapes (a backslash followed by any character other than the allowable escapes). This catches the quoted string error "`\_SB_`" (which should be "`\\_SB_`").

Also, there are numerous instances in the ACPI specification where this error occurs.

Added a compiler option to disable all optimizations. This is basically the "compatibility mode" because by using this option, the AML code will come out exactly the same as other ASL compilers.

Added error messages for incorrectly ordered dependent resource functions. This includes: missing EndDependentFn macro at end of dependent resource list, nested dependent function macros (both start and end), and missing StartDependentFn macro. These are common errors that should be caught at compile time.

Implemented `_OSI` support for the disassembler and compiler. `_OSI` must be included in the namespace for proper disassembly (because the disassembler must know the number of arguments.)

Added an "optimization" message type that is optional (off by default). This message is used for all optimizations - including constant folding, integer optimization, and namepath optimization.

-----  
25 July 2002. Summary of changes for this release.

#### 1) ACPI CA Core Subsystem Version 20020725:

The AML Disassembler has been enhanced to produce compilable ASL code and has been integrated into the iASL compiler (see below) as well as the single-step disassembly for the AML debugger and the disassembler for the AcpiDump utility. All ACPI 2.0A opcodes, resource templates and macros are fully supported. The



disassembler has  
been tested on over 30 different AML files,  
producing identical AML when the resulting disassembled ASL file  
is recompiled with the same ASL compiler.

Modified the Resource Manager to allow zero interrupts and zero  
dma channels during the GetCurrentResources call. This was  
causing problems on some platforms.

Added the AcpiOsRedirectOutput interface to the OSL to simplify  
output redirection for the AcpiOsPrintf and AcpiOsVprintf  
interfaces.

Code and Data Size: Current core subsystem library sizes are shown  
below. These are the code and data sizes for the acpica.lib  
produced by the Microsoft Visual C++ 6.0 compiler, and these  
values do not include any ACPI driver or OSPM code. The debug  
version of the code includes the debug output trace mechanism and  
has a larger code and data size. Note that these values will vary  
depending on the efficiency of the compiler and the compiler  
options used during generation.

#### Previous Release

Non-Debug Version: 68.7K Code, 7.4K Data,  
76.1K Total

Debug Version: 142.9K Code, 58.7K Data, 201.6K Total  
Current Release:

Non-Debug Version: 69.1K Code, 8.2K Data, 77.3K Total  
Debug Version: 149.4K Code, 61.6K Data, 211.0K Total

## 2) Linux

Fixed a panic in the EC driver (Dominik Brodowski)

Implemented checksum of the R/XSDT itself during Linux table scan  
(Richard Schaal)

## 3) iASL compiler

The AML disassembler is integrated into the compiler. The "-d"  
option invokes the disassembler to completely disassemble an  
input AML file, producing as output a text ASL file with the  
extension ".dsl" (to avoid name collisions with existing .asl  
source files.) A future enhancement will allow the disassembler  
to obtain the BIOS DSDT from the registry under Windows.



Fixed a problem with the VendorShort and VendorLong resource descriptors where an invalid AML sequence was created.

Implemented a fix for BufferData term in the ASL parser. It was inadvertently defined twice, allowing invalid syntax to pass and causing reduction conflicts.

Fixed a problem where the Ones opcode could get converted to a value of zero if "Ones" was used where a byte, word or dword value was expected. The 64-bit value is now truncated to the correct size with the correct value.

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02 July 2002. Summary of changes for this release.

#### 1) ACPI CA Core Subsystem Version 20020702:

The Table Manager code has been restructured to add several new features. Tables that are not required by the core subsystem (other than the FADT, DSDT, FACS, PSDTs, etc.) are no longer validated in any way and are returned from AcpiGetFirmwareTable if requested. The AcpiOsTableOverride interface is now called for each table that is loaded by the subsystem in order to allow the host to override any table it chooses. Previously, only the DSDT could be overridden. Added one new files, tbrsdt.c and tbgetall.c.

Fixed a problem with the conversion of internal package objects to external objects (when a package is returned from a control method.) The return buffer length was set to zero instead of the proper length of the package object.

Fixed a reported problem with the use of the RefOf and DeRefOf operators when passing reference arguments to control methods. A new type of Reference object is used internally for references produced by the RefOf operator.

Added additional error messages in the Resource Manager to explain AE\_BAD\_DATA errors when they occur during resource parsing.

Split the AcpiEnableSubsystem into two primitives to enable a finer granularity initialization sequence. These two calls should be called in this order: AcpiEnableSubsystem (flags),



AcpiInitializeObjects (flags). The flags parameter remains the same.

## 2) Linux

Updated the ACPI utilities module to understand the new style of fully resolved package objects that are now returned from the core subsystem. This eliminates errors of the form:

```
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PPB._.PRT]
acpi_utils-0430 [145] acpi_evaluate_reference:
Invalid element in package (not a device reference)
```

The method evaluation utility uses the new buffer allocation scheme instead of calling AcpiEvaluate Object twice.

Added support for ECDDT. This allows the use of the Embedded

Controller before the namespace has been fully initialized, which is necessary for ACPI 2.0 support, and for some laptops to initialize properly. (Laptops using ECDDT are still rare, so only limited testing was performed of the added functionality.)

Fixed memory leaks in the EC driver.

Eliminated a brittle code structure in acpi\_bus\_init().

Eliminated the acpi\_evaluate() helper function in utils.c. It is no longer needed since acpi\_evaluate\_object can optionally allocate memory for the return object.

Implemented fix for keyboard hang when getting battery readings on some systems (Stephen White)

PCI IRQ routing update (Dominik Brodowski)

Fix an ifdef to allow compilation on UP with LAPIC  
but no IOAPIC  
support

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11 June 2002. Summary of changes for this release.

## 1) ACPI CA Core Subsystem Version 20020611:

Fixed a reported problem where constants such as Zero and One



appearing within \_PRT packages were not handled correctly within the resource manager code. Originally reported against the ASL compiler because the code generator now optimizes integers to their minimal AML representation (i.e. AML constants if possible.) The \_PRT code now handles all AML constant opcodes correctly (Zero, One, Ones, Revision).

Fixed a problem with the Concatenate operator in the AML interpreter where a buffer result object was incorrectly marked as not fully evaluated, causing a run-time error of AE\_AML\_INTERNAL.

All package sub-objects are now fully resolved before they are returned from the external ACPI interfaces. This means that name strings are resolved to object handles, and constant operators (Zero, One, Ones, Revision) are resolved to Integers.

Implemented immediate resolution of the AML Constant opcodes (Zero, One, Ones, Revision) to Integer objects upon detection within the AML stream. This has simplified and reduced the generated code size of the subsystem by eliminating about 10 switch statements for these constants (which previously were contained in Reference objects.) The complicating issues are that the Zero opcode is used as a "placeholder" for unspecified optional target operands and stores to constants are defined to be no-ops.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous

Release

Non-Debug Version: 69.3K Code, 7.4K Data, 76.7K Total

Debug Version: 143.8K Code, 58.8K Data, 202.6K Total

Current Release:

Non-Debug Version: 68.7K Code, 7.4K Data, 76.1K Total

Debug Version: 142.9K Code, 58.7K Data, 201.6K Total

2) Linux



Added preliminary support for obtaining \_TRA data for PCI root bridges (Bjorn Helgaas).

### 3) iASL Compiler Version X2046:

Fixed a problem where the "\_DDN" reserved name was defined to be a control method with one argument. There are no arguments, and \_DDN does not have to be a control method.

Fixed a problem with the Linux version of the compiler where the source lines printed with error messages were the wrong lines. This turned out to be the "LF versus CR/LF" difference between Windows and Unix. This appears to be the longstanding issue concerning listing output and error messages.

Fixed a problem with the Linux version of compiler where opcode names within error messages were wrong.

This was caused by a slight difference in the output of the Flex tool on Linux versus Windows.

Fixed a problem with the Linux compiler where the hex output files contained some garbage data caused by an internal buffer overrun.

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17 May 2002. Summary of changes for this release.

### 1) ACPI CA Core Subsystem Version 20020517:

Implemented a workaround to an BIOS bug discovered on the HP OmniBook where the FADT revision number and the table size are inconsistent (ACPI 2.0 revision vs. ACPI 1.0 table size). The new behavior is to fallback to using only the ACPI 1.0 fields of the FADT if the table is too small to be a ACPI 2.0 table as claimed by the revision number. Although this is a BIOS bug, this is a case where the workaround is simple enough and with no side effects, so it seemed prudent to add it. A warning message is issued, however.

Implemented minimum size checks for the fixed-length ACPI tables -  
- the FADT and FACS, as well as consistency  
checks between the  
revision number and the table size.

Fixed a reported problem in the table override support where the



new table pointer was incorrectly treated as a physical address instead of a logical address.

Eliminated the use of the AE\_AML\_ERROR exception and replaced it with more descriptive codes.

Fixed a problem where an exception would occur if an ASL Field was defined with no named Field Units underneath it (used by some index fields).

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 68.8K Code, 7.1K

Data, 75.9K Total

Debug Version: 142.9K Code, 58.4K Data, 201.3K Total

#### Current Release:

Non-Debug Version: 69.3K Code, 7.4K Data, 76.7K Total

Debug Version: 143.8K Code, 58.8K Data, 202.6K Total

## 2) Linux

Much work done on ACPI init (MADT and PCI IRQ routing support).  
(Paul D. and Dominik Brodowski)

Fix PCI IRQ-related panic on boot (Sam Revitch)

Set BM\_ARB\_DIS when entering a sleep state (Ducrot Bruno)

Fix "MHz" typo (Dominik Brodowski)

Fix RTC year 2000 issue (Dominik Brodowski)

Preclude multiple button proc entries (Eric Brunet)

Moved arch-specific code out of include/platform/aclinux.h

## 3) iASL Compiler Version X2044:



Implemented error checking for the string used in the EISAID macro (Usually used in the definition of the \_HID object.) The code now strictly enforces the PnP format - exactly 7 characters, 3 uppercase letters and 4 hex digits.

If a raw string is used in the definition of the \_HID object (instead of the EISAID macro), the string must contain all alphanumeric characters (e.g., "\*PNP0011" is not allowed because of the asterisk.)

Implemented checking for invalid use of ACPI reserved names for most of the name creation operators (Name, Device, Event, Mutex, OperationRegion, PowerResource, Processor, and ThermalZone.) Previously, this check was only performed for control methods.

Implemented an additional check on the Name operator to emit an error if a reserved name that must be implemented in ASL as a control method is used. We know that a reserved name must be a method if it is defined with input arguments.

The warning emitted when a namespace object reference is not found during the cross reference phase has been changed into an error. The "External" directive should be used for names defined in other modules.

#### 4) Tools and Utilities

The 16-bit tools (adump16 and aexec16) have been regenerated and tested.

Fixed a problem with the output of both acpidump and adump16 where the indentation of closing parentheses and brackets was not

aligned properly with the parent block.

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03 May 2002. Summary of changes for this release.

#### 1) ACPI CA Core Subsystem Version 20020503:

Added support a new OSL interface that allows the host operating

system software to override the DSDT found in the firmware -



AcpiOsTableOverride. With this interface, the OSL can examine the version of the firmware DSDT and replace it with a different one if desired.

Added new external interfaces for accessing ACPI registers from device drivers and other system software - AcpiGetRegister and AcpiSetRegister. This was simply an externalization of the existing AcpiHwBitRegister interfaces.

Fixed a regression introduced in the previous build where the ASL/AML CreateField operator always returned an error, "destination must be a NS Node".

Extended the maximum time (before failure) to successfully enable ACPI mode to 3 seconds.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 68.5K Code, 7.0K Data, 75.5K Total

Debug Version: 142.4K Code, 58.3K Data, 200.7K Total

#### Current Release:

Non-Debug Version: 68.8K Code, 7.1K Data, 75.9K Total

Debug Version: 142.9K Code, 58.4K Data, 201.3K Total

## 2) Linux

Enhanced ACPI init code for SMP. We are now fully MPS and \$PIR-free. While 3 out of 4 of our in-house systems work fine, the last one still hangs when testing the LAPIC timer.

Renamed many files in 2.5 kernel release to omit "acpi\_" from the name.

Added warning on boot for Presario 711FR.

Sleep improvements (Pavel Machek)



ACPI can now be built without CONFIG\_PCI enabled.

IA64: Fixed memory map functions (JI Lee)

### 3) iASL Compiler Version X2043:

Added support to allow the compiler to be integrated into the MS VC++ development environment for one-button compilation of single files or entire projects -- with error-to-source-line mapping.

Implemented support for compile-time constant folding for the Type3, Type4, and Type5 opcodes first defined in the ACPI 2.0 specification. This allows the ASL writer to use expressions instead of Integer/Buffer/String constants in terms that must evaluate to constants at compile time and will also simplify the emitted AML in any such sub-expressions that can be folded (evaluated at compile-time.) This increases the size of the compiler significantly because a portion of the ACPI CA AML interpreter is included within the compiler in order to pre-evaluate constant expressions.

Fixed a problem with the "Unicode" ASL macro that caused the compiler to fault. (This macro is used in conjunction with the \_STR reserved name.)

Implemented an AML opcode optimization to use the Zero, One, and Ones opcodes where possible to further reduce the size of integer constants and thus reduce the overall size of the generated AML code.

Implemented error checking for new reserved terms for ACPI version 2.0A.

Implemented the -qr option to display the current list of ACPI reserved names known to the compiler.

Implemented the -qc option to display the current list of ASL operators that are allowed within constant expressions and can therefore be folded at compile time if the operands are constants.

### 4) Documentation

Updated the Programmer's Reference for new interfaces, data types, and memory allocation model options.



Updated the iASL Compiler User Reference to apply new format and add information about new features and options.

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19 April 2002. Summary  
of changes for this release.

1) ACPI CA Core Subsystem Version 20020419:

The source code base for the Core Subsystem has been completely cleaned with PC-lint (FlexLint) for both 32-bit and 64-bit versions. The Lint option files used are included in the /acpi/generate/lint directory.

Implemented enhanced status/error checking across the entire Hardware manager subsystem. Any hardware errors (reported from the OSL) are now bubbled up and will abort a running control method.

Fixed a problem where the per-ACPI-table integer width (32 or 64) was stored only with control method nodes, causing a fault when non-control method code was executed during table loading. The solution implemented uses a global variable to indicate table width across the entire ACPI subsystem. Therefore, ACPI CA does not support mixed integer widths across different ACPI tables (DSDT, SSDT).

Fixed a problem where NULL extended fields (X fields) in an ACPI 2.0 ACPI FADT caused the table load to fail. Although the existing ACPI specification is a bit fuzzy on this topic, the new behavior is to fall back on a ACPI 1.0 field if the corresponding ACPI 2.0 X field is zero (even though the table revision indicates a full ACPI 2.0 table.) The ACPI specification will be updated to clarify this issue.

Fixed a problem with the SystemMemory operation region handler where memory was always accessed byte-wise even if the AML-specified access width was larger than a byte. This caused problems on systems with memory-mapped I/O. Memory is now accessed with the width specified. On systems that do not support non-aligned transfers, a check is made to guarantee proper address alignment before proceeding in order to avoid an AML-caused alignment fault within the kernel.



Fixed a problem with the ExtendedIrq resource where only one byte of the 4-byte Irq field was extracted.

Fixed the AcpiExDigitsNeeded() procedure to support \_UID. This function was out of date and required a rewrite.

#### Code and Data

Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 66.6K Code, 6.5K Data, 73.1K Total

Debug Version: 139.8K Code, 57.4K Data, 197.2K Total

#### Current Release:

Non-Debug Version: 68.5K Code, 7.0K Data, 75.5K Total

Debug Version: 142.4K Code, 58.3K Data, 200.7K Total

## 2) Linux

PCI IRQ routing fixes (Dominik Brodowski)

## 3) iASL Compiler Version X2042:

Implemented an additional compile-time error check for a field unit whose size + minimum access width would cause a run-time access beyond the end-of-region.

Previously, only the field size itself was checked.

The Core subsystem and iASL compiler now share a common parse object in preparation for compile-time evaluation of the type 3/4/5 ASL operators.

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Summary of changes for this release: 03\_29\_02

## 1) ACPI CA Core Subsystem Version 20020329:

Implemented support for late evaluation of TermArg operands to



Buffer and Package objects. This allows complex expressions to be used in the declarations of these object types.

Fixed an ACPI 1.0 compatibility issue when reading Fields. In ACPI 1.0, if the field was larger than 32 bits, it was returned as a buffer - otherwise it was returned as an integer. In ACPI 2.0, the field is returned as a buffer only if the field is larger than 64 bits. The TableRevision is now considered when making this conversion to avoid incompatibility with existing ASL code.

Implemented logical addressing for AcpiOsGetRootPointer. This allows an RSDP with either a logical or physical address. With this support, the host OS can now override all ACPI tables with one logical RSDP. Includes implementation of "typed" pointer support to allow a common data type for both physical and logical pointers internally. This required a change to the AcpiOsGetRootPointer interface.

Implemented the use of ACPI 2.0 Generic Address Structures for all GPE, Fixed Event, and PM Timer I/O. This allows the use of memory mapped I/O for these ACPI features.

Initialization now ignores not only non-required tables (All tables other than the FADT, FACS, DSDT, and SSDTs), but also does not validate the table headers of unrecognized tables.

Fixed a problem where a notify handler could only be installed/removed on an object of type Device. All "notify"

objects are now supported -- Devices, Processor, Power, and Thermal.

Removed most verbosity from the ACPI\_DB\_INFO debug level. Only critical information is returned when this debug level is enabled.

Code and Data Size: Current  
core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

#### Previous Release

Non-Debug Version: 65.4K Code, 6.2K Data, 71.6K Total



Debug Version: 138.0K Code, 56.6K Data, 194.6K Total  
Current Release:  
Non-Debug Version: 66.6K Code, 6.5K Data, 73.1K Total  
Debug Version: 139.8K Code, 57.4K Data, 197.2K Total

## 2) Linux:

The processor driver (acpi\_processor.c) now fully supports ACPI 2.0-based processor performance control (e.g. Intel(R) SpeedStep(TM) technology) Note that older laptops that only have the Intel "applet" interface are not supported through this.

The 'limit' and 'performance' interface (/proc) are fully functional. [Note that basic policy for controlling performance state transitions will be included in the next version of ospmd.] The idle handler was modified to more aggressively use C2, and PIIX4 errata handling underwent a complete overhaul (big thanks to Dominik Brodowski).

Added support for ACPI-PCI device binding (acpi\_pci\_root.c). \_ADR-based devices in the ACPI namespace are now dynamically bound (associated) with their PCI counterparts (e.g. PCI1->01:00.0). This allows, among other things, ACPI to resolve bus numbers for subordinate PCI bridges.

Enhanced PCI IRQ routing to get the proper bus number for \_PRT entries defined underneath PCI bridges.

Added IBM 600E to bad bios list due to invalid \_ADR value for PIIX4 PCI-ISA bridge, resulting in improper PCI IRQ routing.

In the process of adding full MADT support (e.g. IOAPIC) for IA32 (acpi.c, mpparse.c) -- stay tuned.

Added back visual differentiation between fixed-feature and control-method buttons in dmesg. Buttons are also subtyped (e.g. button/power/PWRF) to simplify button identification.

We no longer use -Wno-unused when compiling debug. Please ignore any "\_THIS\_MODULE defined but not used" messages.

Can now shut down the system using "magic sysrq" key.

## 3) iASL Compiler version 2041:



Fixed a problem where conversion errors for hex/octal/decimal constants were not reported.

Implemented a fix for the General Register template Address field. This field was 8 bits when it should be 64.

Fixed a problem where errors/warnings were no longer being emitted within the listing output file.

Implemented the ACPI 2.0A restriction on ACPI Table Signatures to exactly 4 characters, alphanumeric only.

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Summary of changes for this release: 03\_08\_02

#### 1) ACPI CA Core Subsystem Version 20020308:

Fixed a problem with AML Fields where the use of the "AccessAny" keyword could cause an interpreter error due to attempting to read or write beyond the end of the parent Operation Region.

Fixed a problem in the SystemMemory Operation Region handler where an attempt was made to map memory beyond the end of the region. This was the root cause of the "AE\_ERROR" and "AE\_NO\_MEMORY" errors on some Linux systems.

Fixed a problem where the interpreter/namespace "search to root" algorithm was not functioning for some object types. Relaxed the internal restriction on the search to allow upsearches for all external object types as well as most internal types.

#### 2) Linux:

We now use safe\_halt() macro versus individual calls to sti | hlt.

Writing to the processor limit interface should now work. "echo 1" will increase the limit, 2 will decrease, and 0 will reset to the default.

#### 3) ASL compiler:



Fixed segfault on Linux version.

-----  
Summary of changes for this release: 02\_25\_02

1) ACPI CA Core Subsystem:

Fixed a problem where the GPE bit masks were not initialized properly,  
causing erratic GPE behavior.

Implemented limited support for multiple calling conventions. The code can be generated with either the VPL (variable parameter list, or "C") convention, or the FPL (fixed parameter list, or "Pascal") convention. The core subsystem is about 3.4% smaller when generated with FPL.

2) Linux

Re-add some /proc/acpi/event functionality that was lost during the rewrite

Resolved issue with /proc events for fixed-feature buttons showing up as the system device.

Fixed checks on C2/C3 latencies to be inclusive of maximum values.

Replaced AE\_ERRORS in acpi\_osl.c with more specific error codes.

Changed ACPI PRT option from "pci=noacpi-routing" to "pci=noacpi"

Fixed limit interface & usage to fix bugs with passive cooling hysteresis.

Restructured PRT support.

-----  
Summary of changes for this label: 02\_14\_02

1) ACPI CA Core Subsystem:

Implemented support in AcpiLoadTable to allow loading of FACS and



FADT  
tables.

Support for the now-obsolete interim 0.71 64-bit ACPI tables has been removed. All 64-bit platforms should be migrated to the ACPI 2.0 tables. The actbl71.h header has been removed from the source tree.

All C macros defined within the subsystem have been prefixed with "ACPI\_" to avoid collision with other system include files.

Removed the return value for the two AcpiOsPrint interfaces, since it is never used and causes lint warnings for ignoring the return value.

Added error checking to all internal mutex acquire and release calls. Although a failure from one of these interfaces is probably a fatal system error, these checks will cause the immediate abort of the currently executing method or interface.

Fixed a problem where the AcpiSetCurrentResources interface could fault. This was a side effect of the deployment of the new memory allocation model.

Fixed a couple of problems with the Global Lock support introduced in the last major build. The "common" (1.0/2.0) internal FACS was being overwritten with the FACS signature and clobbering the Global Lock pointer. Also, the actual firmware FACS was being unmapped after construction of the "common" FACS, preventing access to the actual Global Lock field within it. The "common" internal FACS is no longer installed as an actual ACPI table; it is used simply as a global.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (02\_07\_01)

Non-Debug Version: 65.2K Code, 6.2K Data, 71.4K Total

Debug Version: 136.9K Code, 56.4K Data, 193.3K Total



Current Release:

Non-Debug Version: 65.4K Code, 6.2K Data, 71.6K Total

Debug Version: 138.0K Code, 56.6K Data, 194.6K Total

2) Linux

Updated Linux-specific code for core macro and OSL interface changes described above.

Improved /proc/acpi/event. It now can be opened only once and has proper poll functionality.

Fixed and restructured power management (acpi\_bus).

Only create /proc "view by type" when devices of that class exist.

Fixed "charging/discharging" bug (and others) in acpi\_battery.

Improved thermal zone code.

3) ASL Compiler, version X2039:

Implemented the new compiler restriction on ASL String hex/octal escapes to non-null, ASCII values. An error results if an invalid value is used. (This will require an ACPI 2.0 specification change.)

AML object labels that are output to the optional C and ASM source are now prefixed with both the ACPI table signature and table ID to help guarantee uniqueness within a large BIOS project.

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Summary

of changes for this label: 02\_01\_02

1) ACPI CA Core Subsystem:

ACPI 2.0 support is complete in the entire Core Subsystem and the ASL compiler. All new ACPI 2.0 operators are implemented and all other changes for ACPI 2.0 support are complete. With simultaneous code and data optimizations throughout the subsystem, ACPI 2.0 support has been implemented with almost no additional cost in terms of code and data size.



Implemented a new mechanism for allocation of return buffers. If the buffer length is set to ACPI\_ALLOCATE\_BUFFER, the buffer will be allocated on behalf of the caller. Consolidated all return buffer validation and allocation to a common procedure. Return buffers will be allocated via the primary OSL allocation interface since it appears that a separate pool is not needed by most users. If a separate pool is required for these buffers, the caller can still use the original mechanism and pre-allocate the buffer(s).

Implemented support for string operands within the DerefOf operator.

Restructured the Hardware and Event managers to be table driven, simplifying the source code and reducing the amount of generated code.

Split the common read/write low-level ACPI register bitfield procedure into a separate read and write, simplifying the code considerably.

Obsoleted the AcpiOsCallocate OSL interface. This interface was used only a handful of times and didn't have enough critical mass for a separate interface. Replaced with a common calloc procedure in the core.

Fixed a reported problem with the GPE number mapping mechanism that allows GPE1 numbers to be non-contiguous with GPE0. Reorganized the GPE information and shrunk a large array that was originally large enough to hold info for all possible GPEs (256) to simply large enough to hold all GPEs up to the largest GPE number on the machine.

Fixed a reported problem with resource structure alignment on 64-bit platforms.

Changed the AcpiEnableEvent and AcpiDisableEvent external interfaces to not require any flags for the common case of enabling/disabling a GPE.

Implemented support to allow a "Notify" on a Processor object.

Most TBDs in comments within the source code have been resolved and eliminated.

Fixed a problem in the interpreter where a standalone parent



prefix (^) was not handled correctly in the interpreter and debugger.

Removed obsolete and unnecessary GPE save/restore code.

Implemented Field support in the ASL Load operator. This allows a table to be loaded from a named field, in addition to loading a table directly from an Operation Region.

Implemented timeout and handle support in the external Global Lock interfaces.

Fixed a problem in the AcpiDump utility where pathnames were no longer being generated correctly during the dump of named objects.

Modified the AML debugger to give a full display of if/while predicates instead of just one AML opcode at a time. (The predicate can have several nested ASL statements.) The old method was confusing during single stepping.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (12\_18\_01)

Non-Debug Version: 66.1K Code, 5.5K Data, 71.6K Total

Debug Version: 138.3K Code, 55.9K Data, 194.2K Total

Current Release:

Non-Debug Version: 65.2K Code, 6.2K Data, 71.4K Total

Debug Version: 136.9K Code, 56.4K Data, 193.3K Total

## 2) Linux

Implemented fix for PIIX reverse throttling errata (Processor driver)

Added new Limit interface (Processor and Thermal drivers)

New thermal policy (Thermal driver)

Many



updates to /proc

Battery "low" event support (Battery driver)

Supports ACPI PCI IRQ routing (PCI Link and PCI root drivers)

IA32 - IA64 initialization unification, no longer experimental

Menuconfig options redesigned

3) ASL Compiler, version X2037:

Implemented several new output features to simplify integration of AML code into firmware: 1) Output the AML in C source code with labels for each named ASL object. The original ASL source code is interleaved as C comments. 2) Output the AML in ASM source code with labels and interleaved ASL source. 3) Output the AML in raw hex table form, in either C or ASM.

Implemented support for optional string parameters to the LoadTable operator.

Completed support for embedded escape sequences within string literals. The compiler now supports all single character escapes as well as the Octal and Hex escapes. Note: the insertion of a null byte into a string literal (via the hex/octal escape) causes the string to be immediately terminated. A warning is issued.

Fixed a problem where incorrect AML was generated for the case where an ASL namepath consists of a single parent prefix (

) with no trailing name segments.

The compiler has been successfully generated with a 64-bit C compiler.

-----  
Summary of changes for this label: 12\_18\_01

1) Linux

Enhanced blacklist with reason and severity fields. Any table's signature may now be used to identify a blacklisted system.



Call \_PIC control method to inform the firmware which interrupt model the OS is using. Turn on any disabled link devices.

Cleaned up busmgr /proc error handling (Andreas Dilger)

## 2) ACPI CA Core Subsystem:

Implemented ACPI 2.0 semantics for the "Break" operator (Exit from while loop)

Completed implementation of the ACPI 2.0 "Continue", "ConcatenateResTemplate", "DataTableRegion", and "LoadTable" operators. All new ACPI 2.0 operators are now implemented in both the ASL compiler and the AML interpreter.

The only remaining ACPI 2.0 task is support for the String data type in the DerefOf operator. Fixed a problem with AcquireMutex where the status code was lost if the caller had to actually wait for the mutex.

Increased the maximum ASL Field size from 64K bits to 4G bits.

Completed implementation of the external Global Lock interfaces -- AcpiAcquireGlobalLock and AcpiReleaseGlobalLock. The Timeout and Handler parameters were added.

Completed another pass at removing warnings and issues when compiling with 64-bit compilers. The code now compiles cleanly with the Intel 64-bit C/C++ compiler. Most notably, the pointer add and subtract (diff) macros have changed considerably.

Created and deployed a new ACPI\_SIZE type that is 64-bits wide on 64-bit platforms, 32-bits on all others. This type is used wherever memory allocation and/or the C sizeof() operator is used, and affects the OSL memory allocation interfaces AcpiOsAllocate and AcpiOsCallocate.

Implemented sticky user breakpoints in the AML debugger.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.



Previous Release (12\_05\_01)

Non-Debug Version: 64.7K Code, 5.3K Data, 70.0K Total

Debug Version: 136.2K Code, 55.6K Data, 191.8K Total

Current Release:

Non-Debug Version: 66.1K Code, 5.5K Data, 71.6K Total

Debug Version: 138.3K Code, 55.9K Data, 194.2K Total

### 3) ASL Compiler, version X2034:

Now checks for (and generates an error if detected) the use of a Break or Continue statement without an enclosing While statement.

Successfully generated  
the compiler with the Intel 64-bit C  
compiler.

-----  
Summary of changes for this label: 12\_05\_01

#### 1) ACPI CA Core Subsystem:

The ACPI 2.0 CopyObject operator is fully implemented. This operator creates a new copy of an object (and is also used to bypass the "implicit conversion" mechanism of the Store operator.)

The ACPI 2.0 semantics for the SizeOf operator are fully implemented. The change is that performing a SizeOf on a reference object causes an automatic dereference of the object to the actual value before the size is evaluated. This behavior was undefined in ACPI 1.0.

The ACPI 2.0 semantics for the Extended IRQ resource descriptor have been implemented. The interrupt polarity and mode are now independently set.

Fixed a problem where ASL Constants (Zero, One, Ones, Revision) appearing in Package objects were not properly converted to integers when the internal Package was converted to an external object (via the AcpiEvaluateObject interface.)

Fixed

a problem with the namespace object deletion mechanism for objects created by control methods. There were two parts to this problem: 1) Objects created during the initialization phase method parse were not being deleted, and 2) The object owner ID mechanism to track objects was broken.



Fixed a problem where the use of the ASL Scope operator within a control method would result in an invalid opcode exception.

Fixed a problem introduced in the previous label where the buffer length required for the `_PRT` structure was not being returned correctly.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the `acpica.lib` produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (11\_20\_01)

Non-Debug Version: 64.1K Code, 5.3K Data, 69.4K Total

Debug Version: 135.1K Code, 55.4K Data, 190.5K Total

Current Release:

Non-Debug Version: 64.7K Code, 5.3K Data, 70.0K Total

Debug Version: 136.2K Code, 55.6K Data, 191.8K Total

2) Linux:

Updated all files to apply cleanly against 2.4.16.

Added basic PCI Interrupt Routing Table (PRT) support for IA32 (`acpi_pci.c`), and unified the PRT code for IA32 and IA64. This version supports both static and dynamic PRT entries, but dynamic entries are treated as if they were static (not yet reconfigurable). Architecture-specific code to use this data is absent on IA32 but should be available shortly.

Changed the initialization sequence to start the ACPI interpreter (`acpi_init`) prior to initialization of the PCI driver (`pci_init`) in `init/main.c`. This ordering is required to support PRT and facilitate other (future) enhancement. A side effect is that the ACPI bus driver and certain device drivers can no longer be loaded as modules.

Modified the 'make menuconfig' options to allow PCI Interrupt Routing support to be included without the ACPI Bus and other device drivers.



### 3) ASL Compiler, version X2033:

Fixed some issues with the use of the new CopyObject and DataTableRegion operators. Both are fully functional.

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Summary of changes for this label: 11\_20\_01

20 November 2001. Summary of changes for this release.

#### 1) ACPI CA Core Subsystem:

Updated Index support to match ACPI 2.0 semantics. Storing a Integer, String, or Buffer to an Index of a Buffer will store only the least-significant byte of the source to the Indexed buffer byte. Multiple writes are not performed.

Fixed a problem where the access type used in an AccessAs ASL operator was not recorded correctly into the field object.

Fixed a problem where ASL Event objects were created in a signalled state. Events are now created in an unsignalled state.

The internal object cache is now purged after table loading and initialization to reduce the use of dynamic kernel memory -- on the assumption that object use is greatest during the parse phase of the entire table (versus the run-time use of individual control methods.)

ACPI 2.0 variable-length packages are now fully operational.

Code and Data Size: Code and Data optimizations have permitted new feature development with an actual reduction in the library size. Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous

Release (11\_09\_01):

Non-Debug Version: 63.7K Code, 5.2K Data, 68.9K Total

Debug Version: 134.5K Code, 55.4K Data, 189.9K Total



Current Release:

Non-Debug Version: 64.1K Code, 5.3K Data, 69.4K Total

Debug Version: 135.1K Code, 55.4K Data, 190.5K Total

2) Linux:

Enhanced the ACPI boot-time initialization code to allow the use of Local APIC tables for processor enumeration on IA-32, and to pave the way for a fully MPS-free boot (on SMP systems) in the near future. This functionality replaces arch/i386/kernel/acpitables.c, which was introduced in an earlier 2.4.15-preX release. To enable this feature you must add "acpi\_boot=on" to the kernel command line -- see the help entry for CONFIG\_ACPI\_BOOT for more information. An IA-64 release is in the works...

Restructured the configuration options to allow boot-time table parsing support without inclusion of the ACPI Interpreter (and other) code.

NOTE: This release does not include fixes for the reported events, power-down, and thermal passive cooling issues (coming soon).

3) ASL Compiler:

Added additional typechecking for Fields within restricted access Operation Regions. All fields within EC and CMOS regions must be declared with ByteAcc. All fields within SMBus regions must be declared with the BufferAcc access type.

Fixed a problem where the listing file output of control methods no longer interleaved the actual AML code with the ASL source code.

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Summary of changes for this label: 11\_09\_01

1) ACPI CA Core Subsystem:

Implemented ACPI 2.0-defined support for writes to fields with a Buffer, String, or Integer source operand that is smaller than the target field. In these cases, the source operand is zero-extended to fill the target field.



Fixed a problem where a Field starting bit offset (within the parent operation region) was calculated incorrectly if the

alignment of the field differed from the access width. This affected

CreateWordField, CreateDwordField, CreateQwordField, and possibly other fields that use the "AccessAny" keyword.

Fixed a problem introduced in the 11\_02\_01 release where indirect stores through method arguments did not operate correctly.

## 2) Linux:

Implemented boot-time ACPI table parsing support (CONFIG\_ACPI\_BOOT) for IA32 and IA64 UP/SMP systems. This code facilitates the use of ACPI tables (e.g. MADT, SRAT) rather than legacy BIOS interfaces (e.g. MPS) for the configuration of system processors, memory, and interrupts during setup\_arch(). Note that this patch does not include the required architecture-specific changes required to apply this information -- subsequent patches will be posted for both IA32 and IA64 to achieve this.

Added low-level sleep support for IA32 platforms, courtesy of Pat Mochel. This allows IA32 systems to transition to/from various sleeping states (e.g. S1, S3), although the lack of a centralized driver model and power-manageable drivers will prevent its (successful) use on most systems.

Revamped the ACPI 'menuconfig' layout: created new "ACPI Support" submenu, unified IA32 and IA64 options, added new "Boot using ACPI tables" option, etc.

Increased the default timeout for the EC driver from 1ms to 10ms (1000 cycles of 10us) to try to address AE\_TIME errors during EC transactions.

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Summary of changes for this label: 11\_02\_01

### 1) ACPI CA Core Subsystem:

ACPI 2.0 Support: Implemented ACPI 2.0 64-bit Field access (QWordAcc keyword). All ACPI 2.0 64-bit support is now implemented.

OSL Interfaces: Several of the OSL (AcpiOs\*) interfaces required



changes to support ACPI 2.0 Qword field access. Read/Write PciConfiguration(), Read/Write Memory(), and Read/Write Port() now accept an ACPI\_INTEGER (64 bits) as the value parameter. Also, the value parameter for the address space handler interface is now an ACPI\_INTEGER. OSL implementations of these interfaces must now handle the case where the Width parameter is 64.

Index Fields: Fixed a problem where unaligned bit assembly and disassembly for IndexFields was not supported correctly.

Index and Bank Fields: Nested Index and Bank Fields are now supported. During field access, a check is performed to ensure that the value written to an Index or Bank register is not out of the range of the register. The Index (or Bank) register is written before each access to the field data. Future support will include allowing individual IndexFields to be wider than the DataRegister width.

Fields: Fixed a problem where the AML interpreter was incorrectly attempting to write beyond the end of a Field/OpRegion. This was a boundary case that occurred when a DWORD field was written to a BYTE access OpRegion, forcing multiple writes and causing the interpreter to write one datum too many.

Fields: Fixed a problem with Field/OpRegion access where the starting bit address of a field was incorrectly calculated if the current access type was wider than a byte (WordAcc, DwordAcc, or QwordAcc).

Fields: Fixed a problem where forward references to individual FieldUnits (individual Field names within a Field definition) were not resolved during the AML table load.

Fields: Fixed a problem where forward references from a Field definition to the parent Operation Region definition were not resolved during the AML table load.

Fields: Duplicate FieldUnit names within a scope are now detected during AML table load.

Acpi Interfaces: Fixed a problem where the AcpiGetName() interface returned an incorrect name for the root node.

Code and Data Size: Code and Data optimizations have permitted new feature development with an actual reduction in the library size. Current core subsystem library sizes are shown below. These are



the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (10\_18\_01):

Non-Debug Version: 63.9K Code, 5.1K Data, 69.0K Total

Debug Version: 136.7K Code, 57.4K Data, 194.2K Total

Current Release:

Non-Debug Version: 63.7K Code, 5.2K Data, 68.9K Total

Debug Version: 134.5K Code, 55.4K Data, 189.9K Total

2) Linux:

Improved /proc processor output (Pavel Machek) Re-added MODULE\_LICENSE("GPL") to all modules.

3) ASL Compiler version X2030:

Duplicate FieldUnit names within a scope are now detected and flagged as errors.

4) Documentation:

Programmer Reference updated to reflect OSL and address space handler interface changes described above.

-----  
Summary of changes for this label: 10\_18\_01

ACPI CA Core Subsystem:

Fixed a problem with the internal object reference count mechanism that occasionally caused premature object deletion. This resolves all of the outstanding problem reports where an object is deleted in the middle of an interpreter evaluation. Although this problem only showed up in rather obscure cases, the solution to the problem involved an adjustment of all reference counts involving objects attached to namespace nodes.

Fixed a problem with Field support in the interpreter where writing to an aligned field whose length is an exact multiple (2



or greater) of the field access granularity would cause an attempt to write beyond the end of the field.

The top level AML opcode execution functions within the interpreter have been renamed with a more meaningful and consistent naming convention. The modules `exmonad.c` and `exdyadic.c` were eliminated. New modules are `exoparg1.c`, `exoparg2.c`, `exoparg3.c`, and `exoparg6.c`.

Support for the ACPI 2.0 "Mid" ASL operator has been implemented.

Fixed a problem where the AML debugger was causing some internal objects to not be deleted during subsystem termination.

Fixed a problem with the external `AcpiEvaluateObject` interface where the subsystem would fault if the named object to be evaluated referred to a constant such as Zero, Ones, etc.

Fixed a problem with `IndexFields` and `BankFields` where the subsystem would fault if the index, data, or bank registers were not defined in the same scope as the field itself.

Added `printf` format string checking for compilers that support this feature. Corrected more than 50 instances of issues with format specifiers within invocations of `ACPI_DEBUG_PRINT` throughout the core subsystem code.

The ASL "Revision" operator now returns the ACPI support level implemented in the core - the value "2" since the ACPI 2.0 support is more than 50% implemented.

Enhanced the output of the AML debugger "dump namespace" command to output in a more human-readable form.

Current core subsystem library code sizes are shown below. These

are the code and data sizes

for the `acpica.lib` produced by the

Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the full debug trace mechanism -- leading to a much

larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Label (09\_20\_01):



Non-Debug Version: 65K Code, 5K Data, 70K Total

Debug Version: 138K Code, 58K Data, 196K Total

This Label:

Non-Debug Version: 63.9K Code, 5.1K Data, 69.0K Total

Debug Version: 136.7K Code, 57.4K Data, 194.2K Total

Linux:

Implemented a "Bad BIOS Blacklist" to track machines that have known ASL/AML problems.

Enhanced the /proc interface for the thermal zone driver and added support for \_HOT (the critical suspend trip point). The 'info' file now includes threshold/policy information, and allows setting of \_SCP (cooling preference)

and \_TZP (polling frequency) values to the 'info' file. Examples: "echo tzp=5 > info" sets the polling frequency to 5 seconds, and "echo scp=1 > info" sets the cooling preference to the passive/quiet mode (if supported by the ASL).

Implemented a workaround for a gcc bug that resulted in an OOPs when loading the control method battery driver.

-----  
Summary of changes for this label: 09\_20\_01

ACPI CA Core Subsystem:

The AcpiEnableEvent and AcpiDisableEvent interfaces have been modified to allow individual GPE levels to be flagged as wake-enabled (i.e., these GPEs are to remain enabled when the platform sleeps.)

The AcpiEnterSleepState and AcpiLeaveSleepState interfaces now support wake-enabled GPEs. This means that upon entering the sleep state, all GPEs that are not wake-enabled are disabled. When leaving the sleep state, these GPEs are re-enabled.

A local double-precision divide/modulo module has been added to enhance portability to

OS kernels where a 64-bit math library is not available. The new module is "utmath.c".

Several optimizations have been made to reduce the use of CPU stack. Originally over 2K, the maximum stack usage is now below 2K at 1860 bytes (1.82k)



Fixed a problem with the AcpiGetFirmwareTable interface where the root table pointer was not mapped into a logical address properly.

Fixed a problem where a NULL pointer was being dereferenced in the interpreter code for the ASL Notify operator.

Fixed a problem where the use of the ASL Revision operator returned an error. This operator now returns the current version of the ACPI CA core subsystem.

Fixed a problem where objects passed as control method parameters to AcpiEvaluateObject were always deleted at method termination. However, these objects may end up being stored into the namespace by the called method. The object reference count mechanism was applied to these objects instead of a force delete.

Fixed a problem where static strings or buffers (contained in the AML code) that are declared as package elements within the ASL code could cause a fault because the interpreter would attempt to delete them. These objects are now marked with the "static object" flag to prevent any attempt to delete them.

Implemented an interpreter optimization to use operands directly from the state object instead of extracting the operands to local variables. This reduces stack use and code size, and improves performance.

The module exxface.c was eliminated as it was an unnecessary extra layer of code.

Current core subsystem library code sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the full debug trace mechanism -- leading to a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Non-Debug Version: 65K Code, 5K Data, 70K Total  
(Previously 69K) Debug Version: 138K Code, 58K Data, 196K Total (Previously 195K)

Linux:



Support for ACPI 2.0 64-bit integers has been added. All ACPI Integer objects are now 64 bits wide

All Acpi data types and structures are now in lower case. Only Acpi macros are upper case for differentiation.

Documentation:

Changes to the external interfaces as described above.

-----  
Summary of changes for this label: 08\_31\_01

ACPI CA Core Subsystem:

A bug with interpreter implementation of the ASL Divide operator was found and fixed. The implicit function return value (not the explicit store operands) was returning the remainder instead of the quotient. This was a longstanding bug and it fixes several known outstanding issues on various platforms.

The ACPI\_DEBUG\_PRINT and function trace entry/exit macros have been further optimized for size. There are 700 invocations of the DEBUG\_PRINT macro alone, so each optimization reduces the size of the debug version of the subsystem significantly.

A stack trace mechanism has been implemented. The maximum stack usage is about 2K on 32-bit platforms. The debugger command "stat stack" will display the current maximum stack usage.

All public symbols and global variables within the subsystem are now prefixed with the string "Acpi". This keeps all of the symbols grouped together in a kernel map, and avoids conflicts with other kernel subsystems.

Most of the internal fixed lookup tables have been moved into the code segment via the const operator.

Several enhancements have been made to the interpreter to both reduce the code size and improve performance.

Current core subsystem library code sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the full debug trace mechanism which contains over 700



invocations of the `DEBUG_PRINT` macro, 500 function entry macro invocations, and over 900 function exit macro invocations -- leading to a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Non-Debug Version: 64K Code, 5K Data, 69K Total  
Debug Version: 137K Code, 58K Data, 195K Total

Linux:

Implemented `wbinvd()` macro, pending a kernel-wide definition.

Fixed `/proc/acpi/event` to handle `poll()` and short reads.

ASL Compiler, version X2026:

Fixed a problem introduced in the previous label where the AML

code emitted for package objects produced packages with zero length.

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Summary of changes for this label: 08\_16\_01

ACPI CA Core Subsystem:

The following ACPI 2.0 ASL operators have been implemented in the AML interpreter (These are already supported by the Intel ASL compiler): `ToDecimalString`, `ToHexString`, `ToString`, `ToInteger`, and `ToBuffer`. Support for 64-bit AML constants is implemented in the AML parser, debugger, and disassembler.

The internal memory tracking mechanism (leak detection code) has been upgraded to reduce the memory overhead (a separate tracking block is no longer allocated for each memory allocation), and now supports all of the internal object caches.

The data structures and code for the internal object caches have been coalesced and optimized so that there is a single cache and memory list data structure and a single group of functions that implement generic cache management. This has reduced the code size in both the debug and release versions of the subsystem.

The `DEBUG_PRINT` macro(s) have been optimized for size and replaced by `ACPI_DEBUG_PRINT`. The syntax for this macro is slightly different, because it generates a single call to an internal



function. This results in a savings of about 90 bytes per invocation, resulting in an overall code and data savings of about 16% in the debug version of the subsystem.

Linux:

Fixed C3 disk corruption problems and re-enabled C3 on supporting machines.

Integrated low-level sleep code by Patrick Mochel.

Further tweaked source code Linuxization.

Other minor fixes.

ASL Compiler:

Support for ACPI 2.0 variable length packages is fixed/completed.

Fixed a problem where the optional length parameter for the ACPI 2.0 ToString operator.

Fixed multiple extraneous error messages when a syntax error is detected within the declaration line of a control method.

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Summary of changes for this label: 07\_17\_01

ACPI CA Core Subsystem:

Added a new interface named AcpiGetFirmwareTable to obtain any ACPI table via the ACPI signature. The interface can be called at any time during kernel initialization, even before the kernel virtual memory manager is initialized and paging is enabled. This allows kernel subsystems to obtain ACPI tables very early, even before the ACPI CA subsystem is initialized.

Fixed a problem where Fields defined with the AnyAcc attribute could be resolved to the incorrect address under the following conditions: 1) the field width is larger than 8 bits and 2) the parent operation region is not defined on a DWORD boundary.

Fixed a problem where the interpreter is not being locked during namespace initialization (during execution of the \_INI control methods), causing an error when an attempt is made to release it later.



ACPI 2.0 support in the AML Interpreter has begun and will be ongoing throughout the rest of this year. In this label, The Mod operator is implemented.

Added a new data type to contain full PCI addresses named `ACPI_PCI_ID`. This structure contains the PCI Segment, Bus, Device, and Function values.

Linux:

Enhanced the Linux version of the source code to change most capitalized ACPI type names to lowercase. For example, all instances of `ACPI_STATUS` are changed to `acpi_status`. This will result in a large diff, but the change is strictly cosmetic and aligns the CA code closer to the Linux coding standard.

OSL Interfaces:

The interfaces to the PCI configuration space have been changed to add the PCI Segment number and to split the single 32-bit combined DeviceFunction field into two 16-bit fields. This was accomplished by moving the four values that define an address in PCI configuration space (segment, bus, device, and function) to the new `ACPI_PCI_ID` structure.

The changes to the PCI configuration space interfaces led to a reexamination of the complete set of address space access interfaces for PCI, I/O, and Memory. The previously existing 18 interfaces have proven difficult to maintain (any small change must be propagated across at least 6 interfaces) and do not easily allow for future expansion to 64 bits if necessary. Also, on some systems, it would not be appropriate to demultiplex the access width (8, 16, 32, or 64) before calling the OSL if the corresponding native OS interfaces contain a similar access width parameter. For these reasons, the 18 address space interfaces have been replaced by these 6 new ones:

`AcpiOsReadPciConfiguration`  
`AcpiOsWritePciConfiguration`  
`AcpiOsReadMemory`  
`AcpiOsWriteMemory`  
`AcpiOsReadPort`  
`AcpiOsWritePort`

Added a new interface named `AcpiOsGetRootPointer` to allow the OSL



to perform the platform and/or OS-specific actions necessary to obtain the ACPI RSDP table pointer. On IA-32 platforms, this interface will simply call down to the CA core to perform the low-memory search for the table. On IA-64, the RSDP is obtained from EFI. Migrating this interface to the OSL allows the CA core to

remain OS and platform independent.

Added a new interface named AcpiOsSignal to provide a generic "function code and pointer" interface for various miscellaneous signals and notifications that must be made to the host OS. The first such signals are intended to support the ASL Fatal and Breakpoint operators. In the latter case, the AcpiOsBreakpoint interface has been obsoleted.

The definition of the AcpiFormatException interface has been changed to simplify its use. The caller no longer must supply a buffer to the call; A pointer to a const string is now returned directly. This allows the call to be easily used in printf statements, etc. since the caller does not have to manage a local buffer.

ASL Compiler, Version X2025:

The ACPI 2.0 Switch/Case/Default operators have been implemented and are fully functional. They will work with all ACPI 1.0 interpreters, since the operators are simply translated to If/Else pairs.

The ACPI 2.0 ElseIf operator is implemented and will also work with 1.0 interpreters, for the same reason.

Implemented support for ACPI 2.0 variable-length packages. These packages have a separate opcode, and their size is determined by the interpreter at run-time.

Documentation The ACPI CA Programmer Reference has been updated to reflect the new interfaces and changes to existing interfaces.

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Summary of changes for this label: 06\_15\_01

ACPI CA Core Subsystem:

Fixed a problem where a DWORD-accessed field within a Buffer



object would get its byte address inadvertently rounded down to the nearest DWORD. Buffers are always Byte-accessible.

ASL Compiler, version X2024:

Fixed a problem where the Switch() operator would either fault or hang the compiler. Note however, that the AML code for this ACPI 2.0 operator is not yet implemented.

Compiler uses the new AcpiOsGetTimer interface to obtain compile timings.

Implementation of the CreateField operator automatically converts a reference to a named field within a resource descriptor from a byte offset to a bit offset if required.

Added some missing named fields from the resource descriptor support. These are the names that are automatically created by the compiler to reference fields within a descriptor. They are only valid at compile time and are not passed through to the AML interpreter.

Resource descriptor named fields are now typed as Integers and subject to compile-time typechecking when used in expressions.

-----  
Summary of changes for this label: 05\_18\_01

ACPI CA Core Subsystem:

Fixed a couple of problems in the Field support code where bits from adjacent fields could be returned along with the proper field bits. Restructured the field support code to improve performance, readability and maintainability.

New DEBUG\_PRINTP macro automatically inserts the procedure name into the output, saving hundreds of copies of procedure name strings within the source, shrinking the memory footprint of the debug version of the core subsystem.

Source Code Structure:

The source code directory tree was restructured to reflect the current organization of the component architecture. Some files and directories have been moved and/or renamed.

Linux:



Fixed leaking kacpidpc  
processes.

Fixed queueing event data even when /proc/acpi/event is not  
opened.

ASL Compiler, version X2020:

Memory allocation performance enhancement - over 24X compile time  
improvement on large ASL files. Parse nodes and namestring  
buffers are now allocated from a large internal compiler buffer.

The temporary .SRC file is deleted unless the "-s" option is  
specified

The "-d" debug output option now sends all output to the .DBG file  
instead of the console.

"External" second parameter is now optional

"ElseIf" syntax now properly allows the predicate

Last operand to "Load" now recognized as a Target operand

Debug object can now be used anywhere as a normal object.

ResourceTemplate now returns an object of type BUFFER

EISAID now returns an object of type INTEGER

"Index" now works with a STRING operand

"LoadTable" now accepts optional parameters

"ToString" length parameter is now optional

"Interrupt (ResourceType," parse error fixed.

"Register" with a user-defined region  
space parse error fixed

Escaped backslash at the end of a string ("\\") scan/parse error  
fixed

"Revision" is now an object of type INTEGER.



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Summary of changes for this label: 05\_02\_01

Linux:

/proc/acpi/event now blocks properly.

Removed /proc/sys/acpi. You can still dump your DSDT from /proc/acpi/dsdt.

ACPI CA Core Subsystem:

Fixed a problem introduced in the previous label where some of the "small" resource descriptor types were not recognized.

Improved error messages for the case where an ASL Field is outside the range of the parent operation region.

ASL Compiler, version X2018:

Added error detection for ASL Fields that extend beyond the length of the parent operation region (only if the length of the region is known at compile time.) This includes fields that have a minimum access width that is smaller than the parent region, and individual field units that are partially or entirely beyond the extent of the parent.

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Summary  
of changes for this label: 04\_27\_01

ACPI CA Core Subsystem:

Fixed a problem where the namespace mutex could be released at the wrong time during execution of AcpiRemoveAddressSpaceHandler.

Added optional thread ID output for debug traces, to simplify debugging of multiple threads. Added context switch notification when the debug code realizes that a different thread is now executing ACPI code.

Some additional external data types have been prefixed with the string "ACPI\_" for consistency. This may effect existing code. The data types affected are the external callback typedefs - e.g.,



WALK\_CALLBACK becomes ACPI\_WALK\_CALLBACK.

Linux:

Fixed an issue with the OSL semaphore implementation where a thread was waking up with an error from receiving a SIGCHLD signal.

Linux version of ACPI CA now uses the system C library for string manipulation routines instead of a local implementation.

Cleaned up comments and removed TBDs.

ASL

Compiler, version X2017:

Enhanced error detection and reporting for all file I/O operations.

Documentation:

Programmer Reference updated to version 1.06.

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Summary of changes for this label: 04\_13\_01

ACPI CA Core Subsystem:

Restructured support for BufferFields and RegionFields.

BankFields support is now fully operational. All known 32-bit limitations on field sizes have been removed. Both BufferFields and (Operation) RegionFields are now supported by the same field management code.

Resource support now supports QWORD address and IO resources. The 16/32/64 bit address structures and the Extended IRQ structure have been changed to properly handle Source Resource strings.

A ThreadId of -1 is now used to indicate a "mutex not acquired" condition internally and must never be returned by AcpiOsThreadId. This reserved value was changed from 0 since Unix systems allow a thread ID of 0.

Linux:



Driver code reorganized to enhance portability

Added

a kernel configuration option to control ACPI\_DEBUG

Fixed the EC driver to honor \_GLK.

ASL Compiler, version X2016:

Fixed support for the "FixedHw" keyword. Previously, the FixedHw address space was set to 0, not 0x7f as it should be.

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Summary of changes for this label: 03\_13\_01

ACPI CA Core Subsystem:

During ACPI initialization, the \_SB\_. \_INI method is now run if present.

Notify handler fix - notifies are deferred until the parent method completes execution. This fixes the "mutex already acquired" issue seen occasionally.

Part of the "implicit conversion" rules in ACPI 2.0 have been found to cause compatibility problems with existing ASL/AML. The convert "result-to-target-type" implementation has been removed for stores to method Args and Locals. Source operand conversion is still fully implemented. Possible changes to ACPI 2.0 specification pending.

Fix to AcpiRsCalculatePciRoutingTableLength to return correct length.

Fix

for compiler warnings for 64-bit compiles.

Linux:

/proc output aligned for easier parsing.

Release-version compile problem fixed.

New kernel configuration options documented in Configure.help.

IBM 600E - Fixed Sleep button may generate "Invalid <NULL> context" message.



OSPM:

Power resource driver integrated with bus manager.

Fixed kernel fault during active cooling for thermal zones.

Source Code:

The source code tree has been restructured.

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Summary of changes for this label: 03\_02\_01

Linux OS Services Layer (OSL):

Major revision of all Linux-specific code.

Modularized all ACPI-specific drivers.

Added new thermal zone and power resource drivers.

Revamped /proc interface (new functionality is under /proc/acpi).

New kernel configuration options.

Linux known issues:

New kernel configuration options not documented in Configure.help yet.

Module dependencies not currently implemented. If used, they should be loaded in

this order: busmgr, power, ec, system,  
processor, battery, ac\_adapter, button, thermal.

Modules will not load if CONFIG\_MODVERSION is set.

IBM 600E - entering S5 may reboot instead of shutting down.

IBM 600E - Sleep button may generate "Invalid <NULL> context" message.

Some systems may fail with "execution mutex already acquired" message.



## ACPI CA Core Subsystem:

Added a new OSL Interface, `AcpiOsGetThreadId`. This was required for the deadlock detection code. Defined to return a non-zero, 32-bit thread ID for the currently executing thread. May be a non-zero constant integer on single-thread systems.

Implemented deadlock detection for internal subsystem mutexes. We may add conditional compilation for this code (debug only) later.

ASL/AML Mutex object semantics are now fully supported. This includes multiple acquires/releases by owner and support for the

Mutex `SyncLevel` parameter.

A new "Force Release" mechanism automatically frees all ASL Mutexes that have been acquired but not released when a thread exits the interpreter. This forces conformance to the ACPI spec ("All mutexes must be released when an invocation exits") and prevents deadlocked ASL threads. This mechanism can be expanded (later) to monitor other resource acquisitions if OEM ASL code continues to misbehave (which it will).

Several new ACPI exception codes have been added for the Mutex support.

Recursive method calls are now allowed and supported (the ACPI spec does in fact allow recursive method calls.) The number of recursive calls is subject to the restrictions imposed by the `SERIALIZED` method keyword and `SyncLevel` (ACPI 2.0) method parameter.

Implemented support for the `SyncLevel` parameter for control methods (ACPI 2.0 feature)

Fixed a deadlock problem when multiple threads attempted to use the interpreter.

Fixed a problem where the string length of a String package element was not always set in a package returned from `AcpiEvaluateObject`.

Fixed a problem where the length of a String package element was not always included in the length of the overall package returned from `AcpiEvaluateObject`.



Added external interfaces (Acpi\*) to the ACPI debug memory manager. This manager keeps a list of all outstanding allocations, and can therefore detect memory leaks and attempts to free memory blocks more than once. Useful for code such as the power manager, etc. May not be appropriate for device drivers. Performance with the debug code enabled is slow.

The ACPI Global Lock is now an optional hardware element.

ASL Compiler Version X2015:

Integrated changes to allow the compiler to be generated on multiple platforms.

Linux makefile added to generate the compiler on Linux

Source Code:

All platform-specific headers have been moved to their own subdirectory, Include/Platform.

New source file added, Interpreter/ammutex.c

New header file, Include/acstruct.h

Documentation:

The programmer reference has been updated for the following new interfaces: AcpiOsGetThreadId

AcpiAllocate AcpiCAllocate AcpiFree

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Summary of changes for this label: 02\_08\_01

Core ACPI CA Subsystem: Fixed a problem where an error was incorrectly returned if the return resource buffer was larger than the actual data (in the resource interfaces).

References to named objects within packages are resolved to the full pathname string before packages are returned directly (via the AcpiEvaluateObject interface) or indirectly via the resource interfaces.

Linux OS Services Layer (OSL):

Improved /proc battery interface.



Added C-state debugging output and other miscellaneous fixes.

#### ASL Compiler Version X2014:

All defined method arguments can now be used as local variables, including the ones that are not actually passed in as parameters. The compiler tracks initialization of the arguments and issues an exception if they are used without prior assignment (just like locals).

The -o option now specifies a filename prefix that is used for all output files, including the AML output file. Otherwise, the default behavior is as follows: 1) the AML goes to the file specified in the DSDT. 2) all other output files use the input source filename as the base.

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Summary of changes for this label: 01\_25\_01

Core ACPI CA Subsystem: Restructured the implementation of object store support within the interpreter. This includes support for the Store operator as well as any ASL operators that include a target operand.

Partially implemented support for Implicit Result-to-Target conversion. This is when a result object is converted on the fly to the type of an existing target object. Completion of this support is pending further analysis of the ACPI specification concerning this matter.

CPU-specific code has been removed from the subsystem (hardware directory).

New Power Management Timer functions added

Linux OS Services Layer (OSL): Moved system state transition code to the core, fixed it, and modified Linux OSL accordingly.

Fixed C2 and C3 latency calculations.

We no longer use the compilation date for the version message on initialization, but retrieve the version from AcpiGetSystemInfo().

Incorporated for fix Sony VAIO machines.



Documentation: The Programmer Reference has been updated and reformatted.

ASL Compiler: Version X2013: Fixed a problem where the line numbering and error reporting could get out of sync in the presence of multiple include files.

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Summary of changes for this label: 01\_15\_01

Core ACPI CA Subsystem:

Implemented support for type conversions in the execution of the ASL Concatenate operator (The second operand is converted to match the type of the first operand before concatenation.)

Support for implicit source operand conversion is partially implemented. The ASL source operand types Integer, Buffer, and String are freely interchangeable for most ASL operators and are converted

by the interpreter on the fly as required. Implicit Target operand conversion (where the result is converted to the target type before storing) is not yet implemented.

Support for 32-bit and 64-bit BCD integers is implemented.

Problem fixed where a field read on an aligned field could cause a read past the end of the field.

New exception, AE\_AML\_NO\_RETURN\_VALUE, is returned when a method does not return a value, but the caller expects one. (The ASL compiler flags this as a warning.)

ASL Compiler:

Version X2011:

1. Static typechecking of all operands is implemented. This prevents the use of invalid objects (such as using a Package where an Integer is required) at compile time instead of at interpreter run-time.
2. The ASL source line is printed with ALL errors and warnings.
3. Bug fix for source EOF without final linefeed.
4. Debug option is split into a parse trace and a namespace trace.
5. Namespace output option (-n) includes initial values for integers and strings.
- 6.



Parse-only option added for quick syntax checking.

## 7. Compiler checks for duplicate ACPI name declarations

Version X2012:

1. Relaxed typechecking to allow interchangeability between strings, integers, and buffers. These types are now converted by the interpreter at runtime.
2. Compiler reports time taken by each internal subsystem in the debug output file.

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Summary of changes for this label: 12\_14\_00

ASL Compiler:

This is the first official release of the compiler. Since the compiler requires elements of the Core Subsystem, this label synchronizes everything.

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Summary of changes for this label: 12\_08\_00

Fixed a problem where named references within the ASL definition of both OperationRegions and CreateXXXFields did not work properly. The symptom was an AE\_AML\_OPERAND\_TYPE during initialization of the region/field. This is similar (but not related internally) to the problem that was fixed in the last label.

Implemented both 32-bit and 64-bit support for the BCD ASL functions ToBCD and FromBCD.

Updated all legal headers to include "2000" in the copyright years.

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Summary of changes for this label: 12\_01\_00

Fixed a problem where method invocations within the ASL definition of both OperationRegions and CreateXXXFields did not work properly. The symptom was an AE\_AML\_OPERAND\_TYPE during initialization of the region/field:

nsinit-0209: AE\_AML\_OPERAND\_TYPE while getting region arguments  
[DEBUG] ammonad-0284: Exec\_monadic2\_r/Not: bad operand(s)



(0x3005)

Fixed a problem where operators with more than one nested subexpression would fail. The symptoms were varied, by mostly AE\_AML\_OPERAND\_TYPE errors. This was actually a rather serious problem that has gone unnoticed until now.

Subtract (Add (1,2), Multiply (3,4))

Fixed a problem where AcpiGetHandle didn't quite get fixed in the previous build (The prefix part of a relative path was handled incorrectly).

Fixed a problem where Operation Region initialization failed if the operation region name was a "namepath" instead of a simple "nameseg". Symptom was an AE\_NO\_OPERAND error.

Fixed a problem where an assignment to a local variable via the indirect RefOf mechanism only worked for the first such assignment. Subsequent assignments were ignored.

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Summary of changes for this label: 11\_15\_00

ACPI 2.0 table support with backwards support for ACPI 1.0 and the 0.71 extensions. Note: although we can read ACPI 2.0 BIOS tables, the AML interpreter does NOT have support for the new 2.0 ASL grammar terms at this time.

All ACPI hardware access is via the GAS structures in the ACPI 2.0 FADT.

All physical memory addresses across all platforms are now 64 bits wide. Logical address width remains dependent on the platform (i.e., "void \*").

AcpiOsMapMemory interface changed to a 64-bit physical address.

The AML interpreter integer size is now 64 bits, as per the ACPI 2.0 specification.

For backwards compatibility with ACPI 1.0, ACPI tables with a revision number less than 2 use 32-bit integers only.

Fixed a problem where the evaluation of OpRegion operands did not always resolve them to numbers properly.



-----  
Summary of changes for this label: 10\_20\_00

Fix for CBN\_.\_STA issue. This fix will allow correct access to CBN\_OpRegions when the \_STA returns 0x8.

Support to convert ACPI constants (Ones, Zeros, One) to actual values before a package object is returned

Fix for method call as predicate to if/while construct causing incorrect if/while behavior

Fix for Else block package lengths sometimes calculated wrong (if block > 63 bytes)

Fix for Processor object length field, was always zero

Table load abort if FACP sanity check fails

Fix for problem with Scope(name) if name already exists

Warning emitted if a named object referenced cannot be found (resolved) during method execution.

-----  
Summary of changes for this label: 9\_29\_00

New table initialization interfaces: AcpiInitializeSubsystem no longer has any parameters AcpiFindRootPointer - Find the RSDP (if necessary) AcpiLoadTables (RSDP) - load all tables found at RSDP->RSDT Obsolete Interfaces AcpiLoadFirmwareTables - replaced by AcpiLoadTables

Note: These interface changes require changes to all existing OSDs

The PCI\_Config default address space handler is always installed at the root namespace object.

-----  
Summary of changes for this label: 09\_15\_00

The new initialization architecture is implemented. New



interfaces are: AcpiInitializeSubsystem (replaces AcpiInitialize)  
AcpiEnableSubsystem Obsolete Interfaces: AcpiLoadNamespace

(Namespace is automatically loaded when a table is loaded)

The ACPI\_OPERAND\_OBJECT has been optimized to shrink its size from 52 bytes to 32 bytes. There is usually one of these for every namespace object, so the memory savings is significant.

Implemented just-in-time evaluation of the CreateField operators.

Bug fixes for IA-64 support have been integrated.

Additional code review comments have been implemented

The so-called "third pass parse" has been replaced by a final walk through the namespace to initialize all operation regions (address spaces) and fields that have not yet been initialized during the execution of the various \_INI and REG methods.

New file - namespace/nsinit.c

-----  
Summary of changes for this label: 09\_01\_00

Namespace manager data structures have been reworked to change the primary object from a table to a single object. This has resulted in dynamic memory savings of 3X within the namespace and 2X overall in the ACPI CA subsystem.

Fixed problem where the call to AcpiEvFindPciRootBuses was inadvertently left commented out.

Reduced the warning count when generating the source with the GCC compiler.

Revision numbers added to each module header showing the SourceSafe version of the file. Please refer to this version number when giving us feedback or comments on individual modules.

The main object types within the subsystem have been renamed to clarify their purpose:

ACPI\_INTERNAL\_OBJECT -> ACPI\_OPERAND\_OBJECT  
ACPI\_GENERIC\_OP -> ACPI\_PARSE\_OBJECT  
ACPI\_NAME\_TABLE\_ENTRY -> ACPI\_NAMESPACE\_NODE



NOTE: no changes to the initialization sequence are included in this label.

-----  
Summary of changes for this label: 08\_23\_00

Fixed problem where TerminateControlMethod was being called multiple times per method

Fixed debugger problem where single stepping caused a semaphore to be oversignalled

Improved performance through additional parse object caching - added ACPI\_EXTENDED\_OP type

-----  
Summary of changes for this label: 08\_10\_00

Parser/Interpreter integration: Eliminated the creation of complete parse trees for ACPI tables and control methods. Instead, parse subtrees are created and then deleted as soon as they are processed (Either entered into the namespace or executed by the interpreter). This reduces the use of dynamic kernel memory significantly. (about 10X)

Exception codes broken into classes and renumbered. Be sure to recompile all code that includes acexcep.h. Hopefully we won't have to renumber the codes again now that they are split into classes (environment, programmer, AML code, ACPI table, and internal).

Fixed some additional alignment issues in the Resource Manager subcomponent

Implemented semaphore tracking in the AcpiExec utility, and fixed several places where mutexes/semaphores were being unlocked without a corresponding lock operation. There are no known semaphore or mutex "leaks" at this time.

Fixed the case where an ASL Return operator is used to return an unnamed package.

-----  
Summary  
of changes for this label: 07\_28\_00



Fixed a problem with the way addresses were calculated in AcpiAmlReadFieldData() and AcpiAmlWriteFieldData(). This problem manifested itself when a Field was created with WordAccess or DwordAccess, but the field unit defined within the Field was less than a Word or Dword.

Fixed a problem in AmlDumpOperands() module's loop to pull operands off of the operand stack to display information. The problem manifested itself as a TLB error on 64-bit systems when accessing an operand stack with two or more operands.

Fixed a problem with the PCI configuration space handlers where context was getting confused between accesses. This required a change to the generic address space handler and address space setup definitions. Handlers now get both a global handler context (this is the one passed in by the user when executing AcpiInstallAddressSpaceHandler()) and a specific region context that is unique to each region (For example, the \_ADR, \_SEG and \_BBN values associated with a specific region). The generic function definitions have changed to the following:

```
typedef ACPI_STATUS (*ADDRESS_SPACE_HANDLER) ( UINT32 Function,
UINT32 Address, UINT32 BitWidth, UINT32 *Value, void
*HandlerContext, // This used to be void *Context void
*RegionContext); // This is an additional parameter
```

```
typedef ACPI_STATUS (*ADDRESS_SPACE_SETUP) ( ACPI_HANDLE
RegionHandle, UINT32 Function, void *HandlerContext, void
**RegionContext); // This used to be **ReturnContext
```

-----  
Summary of changes for this label: 07\_21\_00

Major file consolidation and rename. All files within the interpreter have been renamed as well as most header files. This was done to prevent collisions with existing files in the host OSs -- filenames such as "config.h" and "global.h" seem to be quite common. The VC project files have been updated. All makefiles will require modification.

The parser/interpreter integration continues in Phase 5 with the implementation of a complete 2-pass parse (the AML is parsed twice) for each table; This avoids the construction of a huge parse tree and therefore reduces the amount of dynamic memory required by the subsystem. Greater use of the parse object cache



means that performance is unaffected.

Many comments from the two code reviews have been rolled in.

The 64-bit alignment support is complete.

-----  
Summary of changes for this label: 06\_30\_00

With a nod and a tip of the hat to the technology of yesteryear, we've added support in the source code for 80 column output devices. The code is now mostly constrained to 80 columns or less to support environments and editors that 1) cannot display or print more than 80 characters on a single line, and 2) cannot disable line wrapping.

A major restructuring of the namespace data structure has been completed. The result is 1) cleaner and more understandable/maintainable code, and 2) a significant reduction in the dynamic memory requirement for each named ACPI object (almost half).

-----  
Summary of changes for this label: 06\_23\_00

Linux support has been added. In order to obtain approval to get the ACPI CA subsystem into the Linux kernel, we've had to make quite a few changes to the base subsystem that will affect all users (all the changes are generic and OS-independent). The effects of these global changes have been somewhat far reaching. Files have been merged and/or renamed and interfaces have been renamed. The major changes are described below.

Osd\* interfaces renamed to AcpiOs\* to eliminate namespace pollution/confusion within our target kernels. All OSD interfaces must be modified to match the new naming convention.

Files merged across the subsystem. A number of the smaller source and header files have been merged to reduce the file count and increase the density of the existing files. There are too many to list here. In general, makefiles that call out individual files will require rebuilding.

Interpreter files renamed. All interpreter files now have the prefix am\* instead of ie\* and is\*.



Header files renamed: The acapi.h file is now acpixf.h. The acpiosd.h file is now acpiosxf.h. We are removing references to the acronym "API" since it is somewhat windowsy. The new name is "external interface" or xface or xf in the filenames.j

All manifest constants have been forced to upper case (some were mixed case.) Also, the string "ACPI\_" has been prepended to many (not all) of the constants, typedefs, and structs.

The globals "DebugLevel" and "DebugLayer" have been renamed "AcpiDbgLevel" and "AcpiDbgLayer" respectively.

All other globals within the subsystem are now prefixed with "AcpiGbl\_". Internal procedures within the subsystem are now prefixed with "Acpi" (with only a few exceptions). The original two-letter abbreviation for the subcomponent remains after "Acpi"

-

for example, CmCallocate became AcpiCmCallocate.

Added a source code translation/conversion utility. Used to generate the Linux source code, it can be modified to generate other types of source as well. Can also be used to cleanup existing source by removing extraneous spaces and blank lines. Found in tools/acpiscrc/\*

OsdUnMapMemory was renamed to OsdUnmapMemory and then AcpiOsUnmapMemory. (UnMap became Unmap).

A "MaxUnits" parameter has been added to AcpiOsCreateSemaphore. When set to one, this indicates that the caller wants to use the

semaphore as a mutex, not a counting semaphore. ACPI CA uses both types. However, implementers of this call may want to use different OS primitives depending on the type of semaphore requested. For example, some operating systems provide separate

"mutex" and "semaphore" interfaces - where the mutex interface is much faster because it doesn't have all the overhead of a full semaphore implementation.

Fixed a deadlock problem where a method that accesses the PCI address space can block forever if it is the first access to the space.

-----  
Summary of changes for this label: 06\_02\_00



Support for environments that cannot handle unaligned data accesses (e.g. firmware and OS environments devoid of alignment handler technology namely SAL/EFI and the IA-64 Linux kernel) has been added (via configurable macros) in these three areas: - Transfer of data from the raw AML byte stream is done via byte moves instead of word/dword/qword moves. - External objects are aligned within the user buffer, including package elements (sub-objects). - Conversion of name strings to UINT32 Acpi Names is now done byte-wise.

The Store operator was modified to mimic Microsoft's implementation when storing to a Buffer Field.

Added a check of the BM\_STS bit before entering C3.

The methods subdirectory has been obsoleted and removed. A new file, cmeval.c subsumes the functionality.

A 16-bit (DOS) version of AcpiExec has been developed. The makefile is under the acpiexec directory.

Found in path(s):

\* /opt/cola/permits/1503461790\_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/changes.txt

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20210105/source/include/platform/acdragonfly.h

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%{

/\*\*\*\*\*\*

\*

\* Module Name: prparser.l - Flex input file for preprocessor lexer

\*

\*\*\*\*\*/

/\*\*\*\*\*\*

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\*\*\*\*\*/

```
#include "aslcompiler.h"
```

```
#include "prparser.y.h"
```

```
/* Buffer to pass strings to the parser */
```

```
#define STRING_SETUP    strcpy (AslGbl_StringBuffer, PrParserText);\
    PrParserIval.str = AslGbl_StringBuffer
```

```
#define _COMPONENT      ACPI_COMPILER
    ACPI_MODULE_NAME    ("prscanner")
```



```
/* Local prototypes */
```

```
static char
```

```
PrDoCommentType1 (  
    void);
```

```
static char
```

```
PrDoCommentType2 (  
    void);  
% }
```

```
%option noyywrap
```

```
Number      [0-9a-fA-F]+  
HexNumber    0[xX][0-9a-fA-F]+  
WhiteSpace   [ \t\v\r]+  
NewLine      [\n]  
Identifier   [a-zA-Z][0-9a-zA-Z]*
```

```
%%
```

```
"/**"
```

```
    { if (!PrDoCommentType1 ()) {yyterminate ();} }
```

```
"/**"    { if (!PrDoCommentType2 ()) {yyterminate ();} }
```

```
\(      return (EXPOP_PAREN_OPEN);  
\)      return (EXPOP_PAREN_CLOSE);  
\~      return (EXPOP_ONES_COMPLIMENT);  
\!      return (EXPOP_LOGICAL_NOT);  
\*      return (EXPOP_MULTIPLY);  
\       return (EXPOP_DIVIDE);  
\%      return (EXPOP_MODULO);  
\+      return (EXPOP_ADD);  
\-      return (EXPOP_SUBTRACT);  
">>"   return (EXPOP_SHIFT_RIGHT);  
"<<"   return (EXPOP_SHIFT_LEFT);  
\<      return (EXPOP_LESS);  
\>      return (EXPOP_GREATER);  
"<="    return (EXPOP_LESS_EQUAL);  
">="    return (EXPOP_GREATER_EQUAL);  
"=="    return (EXPOP_EQUAL);  
"!="    return (EXPOP_NOT_EQUAL);  
\&      return (EXPOP_AND);  
\^      return (EXPOP_XOR);  
\|      return (EXPOP_OR);  
"&&"    return (EXPOP_LOGICAL_AND);  
"||"
```



```

        return (EXPOP_LOGICAL_OR);

"defined"    return (EXPOP_DEFINE);
{Identifier} {STRING_SETUP; return (EXPOP_IDENTIFIER);}

<<EOF>>     return (EXPOP_EOF); /* null end-of-string */

{Number}     return (EXPOP_NUMBER);
{HexNumber}  return (EXPOP_HEX_NUMBER);
{NewLine}    return (EXPOP_NEW_LINE);
{WhiteSpace} /* Ignore */

.            return (EXPOP_EOF);
%%

/*
 * Local support functions
 */
static YY_BUFFER_STATE LexBuffer;

/*****
 *
 * FUNCTION: PrInitLexer
 *
 * PARAMETERS: String      - Input string to be parsed
 *
 * RETURN:    TRUE if parser returns NULL. FALSE otherwise.
 *
 * DESCRIPTION: Initialization routine for lexer. The lexer needs
 *              a buffer to handle strings instead of a file.
 *****/

int
PrInitLexer (
    char      *String)
{
    LexBuffer
= yy_scan_string (String);
    return (LexBuffer == NULL);
}

/*****
 *
 * FUNCTION: PrTerminateLexer

```



```

*
* PARAMETERS: None
*
* RETURN:   None
*
* DESCRIPTION: Termination routine for thelexer.
*
*****/

void
PrTerminateLexer (
    void)
{

    yy_delete_buffer (LexBuffer);
}

/***/
*
* FUNCTION:  PrDoCommentType1
*
* PARAMETERS: none
*
* RETURN:   none
*
* DESCRIPTION: Process a new legacy comment. Just toss it.
*
*****/

static char
PrDoCommentType1 (
    void)
{
    int      c;

Loop:
    while (((c = input ()) != '*') && (c != EOF))
    {
    }
    if (c == EOF)
    {
        return (FALSE);
    }

    if (((c = input ()) != '/') && (c != EOF))
    {

```



```

        unput (c);
        goto Loop;
    }
    if (c == EOF)
    {
        return (FALSE);
    }

    return (TRUE);
}

/*****
*
* FUNCTION:  PrDoCommentType2
*
* PARAMETERS: none
*
* RETURN:    none
*
* DESCRIPTION: Process a new "/*" comment. Just toss it.
*
*****/

static char
PrDoCommentType2 (
    void)
{
    int      c;

    while (((c = input ()) != '\n') && (c != EOF))
    {
    }
    if (c == EOF)
    {
        return (FALSE);
    }

    return (TRUE);
}

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* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-
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* Module Name: aslsupport.l - Flex/lex scanner C support routines.
*     NOTE: Included into aslcompile.l, not compiled by itself.
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\*\*\*\*\*/

/\* Configuration \*/

#define ASL\_SPACES\_PER\_TAB 4

#define ASL\_NORMAL\_CHAR 0

#define ASL\_ESCAPE\_SEQUENCE 1

#define ASL\_OCTAL\_CONSTANT 2

#define ASL\_HEX\_CONSTANT 3

void

yyerror (char const \*s)

{

AcpiOsPrintf ("YYERROR: %s\n", s);

}



```

/*****
*
* FUNCTION:  AslParserCleanup
*
* Used to delete the current buffer
*
*****/

void
AslParserCleanup
(
    void)
{

    yy_delete_buffer (YY_CURRENT_BUFFER);
}

/*****
*
* FUNCTION:  AslDoLineDirective
*
* PARAMETERS:  None. Uses input() to access current source code line
*
* RETURN:     Updates global line number and filename
*
* DESCRIPTION: Handle #line directives emitted by the preprocessor.
*
* The #line directive is emitted by the preprocessor, and is used to
* pass through line numbers from the original source code file to the
* preprocessor output file (.i). This allows any compiler-generated
* error messages to be displayed with the correct line number.
*
*****/

static void
AslDoLineDirective (
    void)
{
    int            c;
    char            *Token;
    UINT32         LineNumber;
    char            *Filename;
    UINT32         i;

    AslGbl_HasIncludeFiles = TRUE;

    /* Eat the entire line that contains the #line directive */

```



```

AslGbl_LineBufPtr = AslGbl_CurrentLineBuffer;

while ((c = input()) != '\n' && c != EOF)
{
    *AslGbl_LineBufPtr = (char) c;
    AslGbl_LineBufPtr++;
}
*AslGbl_LineBufPtr = 0;

/* First argument is the actual line number */

Token = strtok (AslGbl_CurrentLineBuffer, " ");
if (!Token)
{
    goto ResetAndExit;
}

/* First argument is the line number */

LineNumber = (UINT32) UtDoConstant (Token);

/* Emit the appropriate number of newlines */

AslGbl_CurrentColumn = 0;
if (LineNumber > AslGbl_CurrentLineNumber)
{
    for (i = 0; i < (LineNumber - AslGbl_CurrentLineNumber); i++)
    {
        FIWriteFile (ASL_FILE_SOURCE_OUTPUT, "\n", 1);
        AslGbl_CurrentColumn++;
    }
}

FISetLineNumber (LineNumber);

/* Second argument is the optional filename (in double quotes) */

Token
= strtok (NULL, " \");
if (Token)
{
    Filename = UtLocalCacheCalloc (strlen (Token) + 1);
    strcpy (Filename, Token);
    FISetFilename (Filename);
}

/* Third argument is not supported at this time */

```



ResetAndExit:

```
/* Reset globals for a new line */

AslGbl_CurrentLineOffset += AslGbl_CurrentColumn;
AslGbl_CurrentColumn = 0;
AslGbl_LineBufPtr = AslGbl_CurrentLineBuffer;
}

/*****
*
* FUNCTION:  AslPopInputFileStack
*
* PARAMETERS:  None
*
* RETURN:    0 if a node was popped, -1 otherwise
*
* DESCRIPTION: Pop the top of the input file stack and point the parser to
*              the saved parse buffer contained in the fnode. Also, set the
*              global line counters to the saved values. This function is
*              called when an include file reaches EOF.
*
*****/

int
AslPopInputFileStack
(
    void)
{
    ASL_FILE_NODE    *Fnode;

    AslGbl_PreviousIncludeFilename = AslGbl_Files[ASL_FILE_INPUT].Filename;
    Fnode = AslGbl_IncludeFileStack;
    DbgPrint (ASL_PARSE_OUTPUT,
        "\nPop InputFile Stack, Fnode %p\n", Fnode);

    DbgPrint (ASL_PARSE_OUTPUT,
        "Include: Closing \"%s\"\n\n", AslGbl_Files[ASL_FILE_INPUT].Filename);

    if (!Fnode)
    {
        return (-1);
    }

    /* Close the current include file */
```



```

fclose (yyin);

/* Update the top-of-stack */

AslGbl_IncludeFileStack = Fnode->Next;

/* Reset global line counter and filename */

AslGbl_Files[ASL_FILE_INPUT].Filename = Fnode->Filename;
AslGbl_CurrentLineNumber = Fnode->CurrentLineNumber;

/* Point the parser to the popped file */

yy_delete_buffer (YY_CURRENT_BUFFER);
yy_switch_to_buffer (Fnode->State);

/* All done with this node */

ACPI_FREE (Fnode);
return (0);
}

/*****
*
* FUNCTION:   AslPushInputFileStack
*
* PARAMETERS: InputFile      - Open file pointer
*              Filename       - Name of the file
*
* RETURN:    None
*
* DESCRIPTION: Push the InputFile onto the file stack, and point the parser
*              to this file. Called when an include file is successfully
*              opened.
*****/

void
AslPushInputFileStack (
    FILE          *InputFile,
    char          *Filename)
{
    ASL_FILE_NODE *Fnode;
    YY_BUFFER_STATE State;

```



```

/* Save the current state in an Fnode */

Fnode = UtLocalCalloc (sizeof (ASL_FILE_NODE));

Fnode->File = yyin;
Fnode->Next = AslGbl_IncludeFileStack;
Fnode->State = YY_CURRENT_BUFFER;
Fnode->Filename = AslGbl_Files[ASL_FILE_INPUT].Filename;
Fnode->CurrentLineNumber = AslGbl_CurrentLineNumber;

/* Push
it on the stack */

AslGbl_IncludeFileStack = Fnode;

/* Point the parser to this file */

State = yy_create_buffer (InputFile, YY_BUF_SIZE);
yy_switch_to_buffer (State);

DbgPrint (ASL_PARSE_OUTPUT,
"\nPush InputFile Stack, returning %p\n", InputFile);

/* Reset the global line count and filename */

AslGbl_Files[ASL_FILE_INPUT].Filename =
    UtLocalCacheCalloc (strlen (Filename) + 1);

strcpy (AslGbl_Files[ASL_FILE_INPUT].Filename, Filename);

AslGbl_CurrentLineNumber = 1;
yyin = InputFile;

/* converter: reset the comment state to STANDARD_COMMENT */

AslGbl_CommentState.CommentType = STANDARD_COMMENT;
}

/*****
*
* FUNCTION:   AslResetCurrentLineBuffer
*
* PARAMETERS: None
*
* RETURN:    None
*
* DESCRIPTION: Reset the Line Buffer to zero, increment global line numbers.
*****/

```



```

*
*****/

void
AslResetCurrentLineBuffer
(
    void)
{

    if (AslGbl_Files[ASL_FILE_SOURCE_OUTPUT].Handle)
    {
        FIWriteFile (ASL_FILE_SOURCE_OUTPUT, AslGbl_CurrentLineBuffer,
            AslGbl_LineBufPtr - AslGbl_CurrentLineBuffer);
    }

    AslGbl_CurrentLineOffset += AslGbl_CurrentColumn;
    AslGbl_CurrentColumn = 0;

    AslGbl_CurrentLineNumber++;
    AslGbl_LogicalLineNumber++;
    AslGbl_LineBufPtr = AslGbl_CurrentLineBuffer;
}

/*****
*
* FUNCTION:  AslInsertLineBuffer
*
* PARAMETERS:  SourceChar      - One char from the input ASL source file
*
* RETURN:      None
*
* DESCRIPTION: Put one character of the source file into the temp line buffer
*
*****/

void
AslInsertLineBuffer (
    int          SourceChar)
{
    UINT32      i;
    UINT32      Count = 1;

    if (SourceChar == EOF)
    {
        return;
    }

```



```

AslGbl_InputByteCount++;

/* Handle tabs. Convert to spaces */

if (SourceChar == '\t')
{
    SourceChar = ' ';
    Count = ASL_SPACES_PER_TAB -
        (AslGbl_CurrentColumn & (ASL_SPACES_PER_TAB-1));
}

for (i = 0; i < Count; i++)
{
    AslGbl_CurrentColumn++;

    /* Insert the character into the line buffer */

    *AslGbl_LineBufPtr = (UINT8) SourceChar;
    AslGbl_LineBufPtr++;

    if (AslGbl_LineBufPtr >
        (AslGbl_CurrentLineBuffer + (AslGbl_LineBufferSize - 1)))
    {
#ifdef 0
        /*
         * Warning if we have split a long source line.
         * <Probably overkill>
         */
        sprintf (MsgBuffer, "Max %u", AslGbl_LineBufferSize);
        AslCommonError (ASL_WARNING, ASL_MSG_LONG_LINE,
            AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
            AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
            AslGbl_Files[ASL_FILE_INPUT].Filename, MsgBuffer);
#endif
        AslResetCurrentLineBuffer ();
    }
    else if (SourceChar == '\n')
    {
        /* End of line */

        AslResetCurrentLineBuffer ();
    }

    if (AcpiGbl_CaptureComments)
    {
        CvProcessCommentState ((char) SourceChar);
    }
}

```



```

    }
}
}

/*****
*
* FUNCTION:  count
*
* PARAMETERS: yytext      - Contains the matched keyword.
*              Type        - Keyword/Character type:
*                          0 = anything except a keyword
*                          1 = pseudo-keywords
*                          2 = non-executable ASL keywords
*                          3 = executable ASL keywords
*
* RETURN:    None
*
* DESCRIPTION: Count keywords and put them into the line buffer
*
*****/

static
void
count (
    int      Type)
{
    char      *p;

    switch (Type)
    {
    case 2:

        ++AslGbl_TotalKeywords;
        ++AslGbl_TotalNamedObjects;
        ++AslGbl_FilesList->TotalKeywords;
        ++AslGbl_FilesList->TotalNamedObjects;
        break;

    case 3:

        ++AslGbl_TotalKeywords;
        ++AslGbl_TotalExecutableOpcodes;
        ++AslGbl_FilesList->TotalKeywords;
        ++AslGbl_FilesList->TotalExecutableOpcodes;
        break;

```



```

default:

    break;
}

for (p = yytext; *p != '\0'; p++)
{
    AslInsertLineBuffer (*p);
    *AslGbl_LineBufPtr = 0;
}
}

/*****
*
* FUNCTION:   AslDoComment
*
* PARAMETERS: none
*
* RETURN:    none
*
* DESCRIPTION: Process a standard comment.
*
*****/

static
BOOLEAN
AslDoComment (
    void)
{
    int         c;
    int         c1 = 0;
    char        *StringBuffer = AslGbl_MsgBuffer;
    char        *EndBuffer = AslGbl_MsgBuffer + ASL_MSG_BUFFER_SIZE;
    ASL_COMMENT_STATE    CurrentState = AslGbl_CommentState; /* to reference later on */

    AslInsertLineBuffer ('/');
    AslInsertLineBuffer (*');
    if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
    {
        *StringBuffer = '/';
        ++StringBuffer;
        *StringBuffer = '*';
        ++StringBuffer;
    }
}

loop:

```



```

/* Eat chars until end-of-comment */

while (((c = input ()) != '*') && (c != EOF))
{
    AslInsertLineBuffer (c);
    if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
    {
        *StringBuffer = (char) c;
        ++StringBuffer;
    }
    c1 = c;
}

if (c == EOF)
{
    goto EarlyEOF;
}

/*
 * Check for
nested comment -- can help catch cases where a previous
 * comment was accidentally left unterminated
 */
if ((c1 == '/') && (c == '*'))
{
    AslCommonError (ASL_WARNING, ASL_MSG_NESTED_COMMENT,
        AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
        AslGbl_InputByteCount, AslGbl_CurrentColumn,
        AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
}

/* Comment is closed only if the NEXT character is a slash */

AslInsertLineBuffer (c);
if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
{
    *StringBuffer = (char) c;
    ++StringBuffer;
}

if (((c1 = input ()) != '/') && (c1 != EOF))
{
    unput (c1);
    goto loop;
}

if (c1 == EOF)

```



```

    {
        goto EarlyEOF;
    }
    if (StringBuffer > EndBuffer)
    {
        goto BufferOverflow;
    }

    AslInsertLineBuffer (c1);
    CvProcessComment (CurrentState, StringBuffer, c1);
    return (TRUE);

EarlyEOF:
    /*
     * Premature
    End-Of-File
     */
    AslCommonError (ASL_ERROR, ASL_MSG_EARLY_EOF,
        AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
        AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
        AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
    return (FALSE);

BufferOverflow:

    /* Comment was too long */

    AslCommonError (ASL_ERROR, ASL_MSG_STRING_LENGTH,
        AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
        AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
        AslGbl_Files[ASL_FILE_INPUT].Filename, "Max length 4096");
    return (FALSE);

}

/*****
 *
 * FUNCTION:  AslDoCommentType2
 *
 * PARAMETERS: none
 *
 * RETURN:   none
 *
 * DESCRIPTION: Process a new "/" comment. Inline comments will be converted
 *              to "/" * standard comments.
 *****/

```



```

*
*****/

static BOOLEAN
AslDoCommentType2 (
    void)
{
    int          c;
    char          *StringBuffer = AslGbl_MsgBuffer;
    char          *EndBuffer = AslGbl_MsgBuffer + ASL_MSG_BUFFER_SIZE;
    ASL_COMMENT_STATE    CurrentState = AslGbl_CommentState;

    AslInsertLineBuffer ('/');

    if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
    {
        AslInsertLineBuffer (*');
        *StringBuffer = '/';
        ++StringBuffer;
        *StringBuffer = '*';
        ++StringBuffer;
    }
    else
    {
        AslInsertLineBuffer ('/');
    }

    while (((c = input ()) != '\n') && (c != EOF))
    {
        AslInsertLineBuffer (c);
        if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
        {
            *StringBuffer = (char) c;
            ++StringBuffer;
        }
    }

    if (c == EOF)
    {
        /* End of file is OK, change to newline. Let parser detect EOF later */

        c = '\n';
    }

    if (StringBuffer > EndBuffer)
    {
        goto BufferOverflow;
    }

```



```

    }
    AslInsertLineBuffer (c);

    CvProcessCommentType2 (CurrentState, StringBuffer);
    return (TRUE);

BufferOverflow:

    /* Comment was too long */

    AslCommonError (ASL_ERROR, ASL_MSG_STRING_LENGTH,
        AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
        AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
        AslGbl_Files[ASL_FILE_INPUT].Filename, "Max length 4096");
    return (FALSE);

}

/*****
*
* FUNCTION:   AslDoStringLiteral
*
* PARAMETERS: none
*
* RETURN:    none
*
* DESCRIPTION: Process a string literal (surrounded by quotes)
*
*****/

static char
AslDoStringLiteral (
    void)
{
    char          *StringBuffer = AslGbl_MsgBuffer;
    char          *EndBuffer = AslGbl_MsgBuffer + ASL_MSG_BUFFER_SIZE;
    char          *CleanString;
    int           StringChar;

    UINT32        State = ASL_NORMAL_CHAR;
    UINT32        i = 0;
    UINT8         Digit;
    char          ConvertBuffer[4];

    /*

```



```

* Eat chars until end-of-literal.
* NOTE: Put back the original surrounding quotes into the
* source line buffer.
*/
AslInsertLineBuffer ("");
while ((StringChar = input()) != EOF)
{
    AslInsertLineBuffer (StringChar);

DoCharacter:
    switch (State)
    {
    case ASL_NORMAL_CHAR:

        switch (StringChar)
        {
        case '\\':
            /*
             * Special handling for backslash-escape sequence. We will
             * toss the backslash and translate the escape char(s).
             */
            State = ASL_ESCAPE_SEQUENCE;
            continue;

        case '"':

            /* String terminator */

            goto CompletedString;

        default:

            break;
        }

    break;

case ASL_ESCAPE_SEQUENCE:

    State = ASL_NORMAL_CHAR;
    switch (StringChar)
    {
    case 'a':

        StringChar = 0x07;    /* BELL */
        break;

```



```

case 'b':

    StringChar = 0x08;    /* BACKSPACE */
    break;

case 'f':

    StringChar = 0x0C;    /* FORMFEED */
    break;

case 'n':

    StringChar = 0x0A;    /* LINEFEED */
    break;

case 'r':

    StringChar = 0x0D;    /* CARRIAGE RETURN*/
    break;

case 't':

    StringChar = 0x09;    /* HORIZONTAL TAB */
    break;

case 'v':

    StringChar = 0x0B;    /* VERTICAL TAB */
    break;

case 'x':

    State = ASL_HEX_CONSTANT;
    i = 0;
    continue;

case "\":
/* Single Quote */
case "\'":    /* Double Quote */
case "\\":    /* Backslash */

    break;

default:

    /* Check for an octal digit (0-7) */

    if (ACPI_IS_OCTAL_DIGIT (StringChar))

```



```

    {
        State = ASL_OCTAL_CONSTANT;
        ConvertBuffer[0] = (char) StringChar;
        i = 1;
        continue;
    }

    /* Unknown escape sequence issue warning, but use the character */

    AslCommonError (ASL_WARNING, ASL_MSG_INVALID_ESCAPE,
        AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
        AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
        AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
    break;
}
break;

case ASL_OCTAL_CONSTANT:

    /* Up to three octal digits allowed */

    if (!ACPI_IS_OCTAL_DIGIT (StringChar) ||
        (i > 2))
    {
        /*
         * Reached end of the constant. Convert the assembled ASCII
         * string and resume processing of the next character
         */
        ConvertBuffer[i] = 0;
        Digit = (UINT8) strtoul (ConvertBuffer, NULL, 8);

        /* Check for NULL or non-ascii character (ignore if so) */

        if ((Digit == 0) || (Digit > ACPI_ASCII_MAX))
        {
            AslCommonError (ASL_WARNING, ASL_MSG_INVALID_STRING,
                AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
                AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
                AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
        }
        else
        {
            *StringBuffer = (char) Digit;
            StringBuffer++;
            if (StringBuffer
                >= EndBuffer)
            {

```



```

        goto BufferOverflow;
    }
}

State = ASL_NORMAL_CHAR;
goto DoCharacter;
break;
}

/* Append another digit of the constant */

ConvertBuffer[i] = (char) StringChar;
i++;
continue;

case ASL_HEX_CONSTANT:

    /* Up to two hex digits allowed */

    if (!isxdigit (StringChar) ||
        (i > 1))
    {
        /*
         * Reached end of the constant. Convert the assembled ASCII
         * string and resume processing of the next character
         */
        ConvertBuffer[i] = 0;
        Digit = (UINT8) strtoul (ConvertBuffer, NULL, 16);

        /* Check for NULL or non-ascii character (ignore if so) */

        if ((Digit == 0) || (Digit > ACPI_ASCII_MAX))
        {
            AslCommonError (ASL_WARNING, ASL_MSG_INVALID_STRING,
                AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
                AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
                AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
        }
        else
        {
            *StringBuffer = (char) Digit;
            StringBuffer++;
            if (StringBuffer >= EndBuffer)
            {
                goto BufferOverflow;
            }
        }
    }
}

```



```

        State = ASL_NORMAL_CHAR;
        goto DoCharacter;
        break;
    }

    /* Append another digit of the constant */

    ConvertBuffer[i] = (char) StringChar;
    i++;
    continue;

default:

    break;
}

/* Save the finished character */

*StringBuffer = (char) StringChar;
StringBuffer++;
if (StringBuffer >= EndBuffer)
{
    goto BufferOverflow;
}
}

/*
 * Premature End-Of-File
 */
AslCommonError (ASL_ERROR, ASL_MSG_EARLY_EOF,
    AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
    AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
    AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
return (FALSE);

CompletedString:
/*
 * Null terminate the input string and copy string to a new buffer
 */
*StringBuffer = 0;

CleanString = UtLocalCacheCalloc (strlen (AslGbl_MsgBuffer) + 1);
strcpy (CleanString, AslGbl_MsgBuffer);
AslCompilerIval.s = CleanString;
return (TRUE);

```



BufferOverflow:

```
/* Literal was too long */

AslCommonError (ASL_ERROR, ASL_MSG_STRING_LENGTH,
    AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
    AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
    AslGbl_Files[ASL_FILE_INPUT].Filename, "Max length 4096");
return (FALSE);
}
```

Found

in path(s):

```
* /opt/cola/permits/1503461790_1671140695.2954416/0/acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslsupport.l
```

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## 1.376 sysv-init 2.99



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Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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## 1.379 libcgroup 0.41

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,

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## 1.382 time 1.9

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Upstream-Name: rdma-core

Upstream-Contact: Doug Ledford <dledford@redhat.com>,

Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>



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The development of Dynamically Loadable Zones



(DLZ) for Bind 9 was  
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*
/opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_common.h
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## 1.389 racc 1.5.1

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Version 3.0, 18 August 2009

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.



Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve



this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification

follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in



themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.



5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Version 2.1, February 1999

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that



uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood



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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.395 openssl 1.1.1v

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## 1.400 libnsl 2.33

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bzip2/libbzip2 version 1.0.6 of 6 September 2010



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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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## 1.401 ntp 4.2.8p17

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section 10

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.



| Release        | Derived<br>from | Year      | Owner      | GPL-<br>compatible? (1) |
|----------------|-----------------|-----------|------------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI        | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI       | yes                     |
| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
| 1.6.1          | 1.6             | 2001      | CNRI       | yes (2)                 |
| 2.1            | 2.0+1.6.1       | 2001      | PSF        | no                      |
| 2.0.1          | 2.0+1.6.1       | 2001      | PSF        | yes                     |
| 2.1.1          | 2.1+2.0.1       | 2001      | PSF        | yes                     |
| 2.1.2          | 2.1.1           | 2002      | PSF        | yes                     |
| 2.1.3          | 2.1.2           | 2002      | PSF        | yes                     |
| 2.2 and above  | 2.1.1           | 2001-now  |            |                         |
| PSF            | yes             |           |            |                         |

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Ty Coon, President of Vice

That's all there is to it!

## 1.409 c-ares 1.16.1

### 1.409.1 Available under license :

# c-ares license

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## 1.410 vim 8.2

### 1.410.1 Available under license :

\*uganda.txt\* For Vim version 8.2. Last change: 2019 Dec 07

VIM REFERENCE MANUAL by Bram Moolenaar

\*uganda\* \*Uganda\* \*copying\* \*copyright\* \*license\*  
SUMMARY



\*iccf\* \*ICCF\*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

## VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:
  - a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation

then this license, or a later version, also applies to your changes.

The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.



b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding

modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL.

If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is  
<maintainer@vim.org>



IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

=====

Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any



religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than



5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o.  
box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.  
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.  
Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353  
If  
you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.



Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is

the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruethof 1

8134 Adlswil



Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain



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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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included without  
limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,



in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of



the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed

under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.



6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these



materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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# 1.414 perl 5.32.1

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```

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```
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<signature of Ty Coon>, 1 April 1989

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## 1.418 xmlsec 1.2.31

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#### References

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\* AOL

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<http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm>

\* Cordys R&D BV

<http://www.aleksey.com/pipermail/xmlsec/2003/005581.html>

\* Cryptocom LTD

<http://www.aleksey.com/pipermail/xmlsec/2006/007410.html>

## 1.419 e2fsprogs 1.46.1

### 1.419.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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file system consistency checker (e2fsck.static). The EXT2 utilities  
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card  
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```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

all:: image



real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;' /\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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Index: tdbsa/tdb.c

```
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell      2005
+ Copyright (C) Andrew Tridgell      1999-2005
+ Copyright (C) Jeremy Allison      2000-2006
+ Copyright (C) Paul 'Rusty' Russell  2000
```

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Gadi Oxman, August 1995

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Theodore Ts'o  
23-June-2007

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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## 1.420 sysstat 12.4.3

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for



National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |
| PSF            | yes          |           |            |                     |

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```

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Public License instead of this License.
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
    local FILE="$1"

    # Read the contents of the file into a variable
    local raw_license_text=$(<"$FILE")

    # Convert to lowercase
    local lowercase_license_text="{raw_license_text,,}"

    # Remove anything before the beginning of the license
    local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

    # Replace line breaks (Windows or Linux) with a single space
    local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

    # Replace multiple spaces with a single space
    local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

    # Strip away any non-printable, non-whitespace characters
    local clean_unprintable_license_text=$(tr
    -cd '[:print:][:space:]' <<< "$normalized_license_text")

    # Remove punctuation and special characters
    local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

    # Calculate the MD5 sum of the cleaned license text
    local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

    # Output the MD5 sum
    echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
    echo "Please provide a FILE as an argument."
    exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"

```



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```
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it
under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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# 1.427 qemu 5.2.0

## 1.427.1 Available under license :

```
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 * FreeBSD strace list
 *
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 *
```



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 \*/

```
{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR__acl_delete_fd,
  "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op,
  "__umtx_op", "%s(%d, %d, %d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL,
  NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\", %d)", NULL, NULL },
```



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{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_get_file,
"extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL,
NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
"freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },

```



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{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid,
  "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen,
  "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\", %o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL
},
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil,
"profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk,
"sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid,

```



```

"setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending,
"sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },

```



```
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
  NULL, NULL },
bsd_user_ss.add(files(
  'bsdload.c',
  'elfload.c',
  'main.c',
  'mmap.c',
  'signal.c',
  'strace.c',
  'syscall.c',
  'uaccess.c',
))
```

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TARGET\_BASE\_ARCH=sparc

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---

=====  
= Change Description / Commit Message / Patch Email =



=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

==== Start of sample patch email message ====

From: Contributor Name <contributor@example.com>  
Subject: [Repository/Branch  
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: Tianocore Contribution Agreement 1.1  
Signed-off-by: Contributor Name <contributor@example.com>  
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.



- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

=====

= TianoCore Contribution Agreement 1.1 =

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-----

Contributions.txt: TianoCore Contribution Agreement 1.0

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=====

= Code Contributions =

=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution

agreement and version.

For example: Contributed-under: TianoCore Contribution Agreement 1.0

The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Contributions of code put into the public domain can also



be

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Contributions using other licenses might be accepted, but further review will be required.

=====  
= Change Description / Commit Message / Patch Email =  
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

==== Start of sample patch email message ====

From: Contributor Name <contributor@example.com>  
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0  
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or  
attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.



- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

```
=====
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John R. Hauser  
2018 January 20

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```

TARGET_ARCH=sparc
TARGET_ALIGNED_ONLY=y
TARGET_WORDS_BIGENDIAN=y
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
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DRuntime: Runtime Library for the D Programming Language

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## 1.432 openjdk-jre 1.8.0u282

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.  
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has  
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Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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Written by: Philip Hazel

Email local part: ph10

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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## A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.



In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5   | 2.4   | 2006 | PSF | yes |
| 2.5.1 | 2.5   | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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When a "work that uses the Library" uses material from a header file



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a) Accompany

the work with the complete corresponding

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b) Use a suitable shared library mechanism for linking with the



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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.



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The

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the Front-Cover Texts being @var{list}, and with the Back-Cover Texts  
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@end group

@end smallexample

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Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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@c ispell-local-pdict: "ispell-dict"

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## 1.442 tornado 6.1

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# 1.445 libtasn 4.16.0

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* $Id: ring.h,v 1.13 1996/08/13 08:43:28 dholland Exp $
*/

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```

* /opt/cola/permits/1833549536_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-
telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/ring.h

```

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- \*
- /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/main.cc
- \* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/terminal.cc
- \* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/commands.cc
- \* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/sys\_bsd.cc

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\* from: @(#)telnetd.h 5.3 (Berkeley) 3/1/91

\* \$Id: telnetd.h,v 1.2 1999/03/27 07:46:21 dholland Exp \$

\*/

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in path(s):

```
* /opt/cola/permits/1833549536_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/telnetd.h
```

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* from: @(#)defs.h 5.10 (Berkeley) 3/1/91
```

```
* $Id: defs.h,v 1.7 1999/08/02 03:14:03 dholland Exp $
```

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*/
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in path(s):

```
* /opt/cola/permits/1833549536_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/defs.h
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\*

\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/state.c

\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/slc.c

\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/termstat.c

\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/utility.c

\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/telnetd.c



\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/sys\_term.c

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\* from: @(#)general.h 5.2 (Berkeley) 3/1/91

\* \$Id: general.h,v 1.1 1996/07/16 05:17:22 dholland Exp \$

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\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/telnetd.8

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\* from: @(#)types.h 5.1 (Berkeley) 9/14/90

\* \$Id: types.h,v 1.2 1996/07/27 00:45:54 dholland Exp \$

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\* from: @(#)fdset.h 5.1 (Berkeley) 9/14/90

\* \$Id: fdset.h,v 1.1 1996/07/16 05:17:22 dholland Exp \$

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- \*

- \* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/network.cc

- \* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/tn3270.cc

- \* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/utilities.cc

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\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/ptrarray.h

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\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/authenc.c

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- \* from: @(#)externs.h 5.3 (Berkeley) 3/22/91

- \* \$Id: externs.h,v 1.20 1999/08/19 09:34:15 dholland Exp \$

- \*/

Found in path(s):

- \* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/externs.h

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\* from: @(#)ext.h 5.7 (Berkeley) 3/1/91

\* \$Id: ext.h,v 1.9 1999/12/12 14:59:44 dholland Exp \$

\*/

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in path(s):

\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-  
telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/ext.h

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telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/issue.net.5

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\* from: @(#)defines.h 5.1 (Berkeley) 9/14/90  
\* \$Id: defines.h,v 1.5 1996/08/04 23:44:43 dholland Exp \$\br/>\*/

Found

in path(s):

\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-  
telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/defines.h

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\*

/opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/authenc.cc

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\* from: @(#)pathnames.h 5.5 (Berkeley) 6/28/90  
\* \$Id: pathnames.h,v 1.3 1996/08/29 22:31:24 dholland Exp  
\$  
\*/

Found in path(s):

\* /opt/cola/permits/1833549536\_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/pathnames.h

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\* From: @(#)conf.c 8.243 (Berkeley) 11/20/95

\*/

Found



in path(s):

```
* /opt/cola/permits/1833549536_1698381019.7945628/0/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/setproctitle.c
```

# 1.451 python-setuptools 54.1.1

## 1.451.1 Available under license :

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# 1.452 gawk 5.1.0

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[include/ruby/onigmo.h]

[include/ruby/oniguruma.h]

[regcomp.c]

[regenc.c]

[regenc.h]

[regerror.c]

[regexec.c]

[regint.h]

[regparse.c]

[regparse.h]

[enc/ascii.c]

[enc/big5.c]

[enc/cp949.c]

[enc/emacs\_mule.c]

[enc/encdb.c]

[enc/euc\_jp.c]

[enc/euc\_kr.c]

[enc/euc\_tw.c]

[enc/gb18030.c]

[enc/gb2312.c]

[enc/gbk.c]

[enc/iso\_8859\_1.c]

[enc/iso\_8859\_10.c]

[enc/iso\_8859\_11.c]

[enc/iso\_8859\_13.c]

[enc/iso\_8859\_14.c]

[enc/iso\_8859\_15.c]

[enc/iso\_8859\_16.c]

[enc/iso\_8859\_2.c]

[enc/iso\_8859\_3.c]

[enc/iso\_8859\_4.c]

[enc/iso\_8859\_5.c]

[enc/iso\_8859\_6.c]

[enc/iso\_8859\_7.c]

[enc/iso\_8859\_8.c]

[enc/iso\_8859\_9.c]

[enc/koi8\_r.c]

[enc/koi8\_u.c]

[enc/shift\_jis.c]



[enc/unicode.c]  
[enc/us\_ascii.c]  
[enc/utf\_16be.c]  
[enc/utf\_16le.c]  
[enc/utf\_32be.c]  
[enc/utf\_32le.c]  
[enc/utf\_8.c]  
[enc/windows\_1251.c]  
[enc/windows\_31j.c]

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\* <https://github.com/k-takata/Onigmo/>  
\* <https://github.com/kkos/oniguruma>  
\* <https://svnweb.freebsd.org/ports/head/devel/oniguruma/>

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[enc/windows\_1250.c]  
[enc/windows\_1252.c]

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[enc/cesu\_8.c]

[enc/windows\_1253.c]

[enc/windows\_1254.c]

[enc/windows\_1257.c]

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[enc/trans/GB/GB12345%UCS.src]

[enc/trans/GB/UCS%GB12345.src]

[enc/trans/GB/GB2312%UCS.src]

[enc/trans/GB/UCS%GB2312.src]

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[enc/trans/JIS/JISX0208\@1990%UCS.src]  
[enc/trans/JIS/JISX0212%UCS.src]  
[enc/trans/JIS/UCS%JISX0201-KANA.src]  
[enc/trans/JIS/UCS%JISX0208@1990.src]  
[enc/trans/JIS/UCS%JISX0212.src]

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[enc/trans/JIS/JISX0213-1%UCS@SIP.src]  
[enc/trans/JIS/JISX0213-2%UCS@BMP.src]  
[enc/trans/JIS/JISX0213-2%UCS@SIP.src]

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[enc/trans/JIS/UCS@BMP%JISX0213-2.src]  
[enc/trans/JIS/UCS@SIP%JISX0213-1.src]  
[enc/trans/JIS/UCS@SIP%JISX0213-2.src]

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[enc/trans/ucm/glibc-BIG5-2.3.3.ucm]

[enc/trans/ucm/glibc-BIG5HKSCS-2.3.3.ucm]

>>>>

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[enc/trans/ucm/windows-950-2000.ucm]

[enc/trans/ucm/windows-950\_hkscs-2001.ucm]

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[aclocal.m4]

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[tool/config.guess]

[tool/config.sub]

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[parse.c]

[parse.h]

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[missing/dtoa.c]

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[win32/win32.c]

[include/ruby/win32.h]

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A C-program for MT19937, with  
initialization improved 2002/2/10::

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization,  
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init\_genrand(seed)  
or init\_by\_array(init\_key, key\_length).

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[missing/procstat\_vm.c]

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\$FreeBSD: head/usr.bin/procstat/procstat\_vm.c 261780 2014-02-11 21:57:37Z jhb \$

[vsnprintf.c]

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[st.c]

[strftime.c]

[include/ruby/st.h]

[missing/acosh.c]

[missing/alloca.c]

[missing/dup2.c]

[missing/erf.c]

[missing/finite.c]

[missing/hypot.c]

[missing/isinf.c]

[missing/isnan.c]

[missing/lgamma\_r.c]

[missing/memcmp.c]

[missing/memmove.c]

[missing/strchr.c]

[missing/strerror.c]

[missing/strstr.c]

[missing/tgamma.c]

[ext/date/date\_strftime.c]

[ext/digest/sha1/sha1.c]

[ext/digest/sha1/sha1.h]

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[missing/crypt.c]

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[missing/strncpy.c]

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[ext/digest/md5/md5.h]

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[ext/digest/rmd160/rmd160.c]

[ext/digest/rmd160/rmd160.h]

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AUTHOR:: Antoon Bosselaers, ESAT-COSIC  
(Arranged for libc by Todd C. Miller)  
DATE:: 1 March 1996

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[ext/digest/sha2/sha2.c]

[ext/digest/sha2/sha2.h]



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[ext/json/generator/generator.c]

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[ext/nkf/nkf-utf8/nkf.c]

[ext/nkf/nkf-utf8/utf8tbl.c]

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[test/psych]

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[ext/socket/getaddrinfo.c]  
[ext/socket/getnameinfo.c]

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[ext/win32ole/win32ole.c]

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Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
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The following people have worked to translate sudo into other languages as part of the Translation Project, see



<https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
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Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Florentina Muat  
Nurmi, Lauri  
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Putanec, Boidar  
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erbnesu, Daniel  
Sikrom, ka  
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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent  
Sandwich logo: Stillman, Mark

# 1.458 traceroute 2.0

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