Open Source Software Licenses in the Cisco Local External Storage Server Version 21.4 (RHEL 5.9)

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```
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```
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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.5 apr-util 1.2.7 :11.el5_5.2

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```

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```

For the xml\expat\conftools\install-sh component:

```
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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```
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1.6 aspell 0.60.3 :12

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The 95 level includes the 354,984 single words and 256,772 compound words from the MWords package, ABLE.LST from the ENABLE Supplement, and some additional words found in my part-of-speech database that were not found anywhere else.

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1.8 aspell_v2 0.60.3 :12

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. 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 program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it
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<signature of Ty Coon>, 1 April 1989
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1.10 atk 1.12.2 :1.fc6

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[This is the first released version of the library GPL. It is
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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.

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

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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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Thus, it is not the intent of this section to claim rights or contest

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

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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:

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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!

1.11 attr 2.4.32 :1.1

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Version 2.1, February 1999

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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 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.

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

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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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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.

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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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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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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.)

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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 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.

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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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Appendix: How to Apply These Terms to Your New Libraries

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```
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*/

/*
osxplay.c

This program demonstrates audio file playback using the Audio
File Library and Core Audio.
*/

1.13 audit 1.8 :2.el5

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1.14 audit_lgpl 1.8 :2.el5

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1.16 avahi 0.6.16 :10.el5_6

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From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
 id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
 id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

  I've modified a (modified) version of Bill Rosenblatt's ksh debugger
  to work with bash-2.0. Does ORA have any problem with me distributing
  it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
 id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
 id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10

Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
 id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
 id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
    "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

   Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions before modifying them.

    John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
}   9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?

}
} Chet Ramey
}
} --
} "The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey

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1.18 bc 1.06 :21

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```
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<signature of Ty Coon>, 1 April 1989
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1.19 bind 9.3.6 :25.P1.el5_11.5

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

 <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, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
   <xsl:if test="translate($rest, '&#9;&#32;', '')">
     <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">
   <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/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:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:text>
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 </xsl:text>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>

</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.21 binutils 2.17.50.0.6 :20.el5_8.3

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  iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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1.22 bitstream-vera-fonts 1.10 :7

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Copyright FAQ
==========

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Yes. A RPM or Debian package is a "larger software package" to begin
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See 1. above.

3. Are derivative works allowed?
Yes!

4. Can I change or add to the font(s)?
Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the
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copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get
adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has
provisions for working with Bitstream to ensure quality additions to
the Bitstream Vera font family. Please contact us if you have such
additions. Note, that in general, we will want such additions for the
entire family, not just a single font, and that you'll have to keep
both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add
glyphs to the font, they must be stylistically in keeping with Vera's
design. Vera cannot become a "ransom note" font. Jim Lyles will be
providing a document describing the design elements used in Vera, as a
guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software
with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them,
can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source
systems and software (e.g., Gnome, KDE, etc.) are now converting to
use fontconfig (see www.fontconfig.org) to handle font configuration,

selection and substitution; it has provisions for overriding font names and subsituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

1.23 bzip2 1.0.3 :6.el5_5

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.3 of 15 February 2005

1.24 cairo 1.2.4 :5.el5

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Version 1.1

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1.27 cman 2.0.115 :109.el5

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```
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##
################################################################################
################################################################################

all:
 ${MAKE} -C lib all
 ${MAKE} -C cman_tool all
 ${MAKE} -C daemon all
 ${MAKE} -C qdisk all

clean:
 ${MAKE} -C lib clean
 ${MAKE} -C cman_tool clean
 ${MAKE} -C daemon clean
 ${MAKE} -C qdisk clean

distclean: clean
 rm -f make/defines.mk

install: all
 ${MAKE} -C lib install
 ${MAKE} -C cman_tool install
 ${MAKE} -C daemon install
 ${MAKE} -C qdisk install
 ${MAKE} -C init.d install
 ${MAKE} -C man install

uninstall:
 ${MAKE} -C lib uninstall
```

```
${MAKE} -C cman_tool uninstall
${MAKE} -C daemon uninstall
${MAKE} -C qdisk uninstall
${MAKE} -C init.d uninstall
${MAKE} -C man uninstall
```

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1.31 cpio 2.6 :25.el5

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customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. 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 program's name and a brief idea of what it does.>
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The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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mouse-clicks or menu items--whatever suits your program.

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

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

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

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[This is the first released version of the library GPL. It is
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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.

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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.

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
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b) Give prominent notice with the combined library of the fact
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1.35 cups/pdftops 1.3.7 :32.el5_11

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1.40 dbus-glib 0.73 :11.el5_9

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1.43 desktop-file-utils 0.10 :7

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(For example, a function in a library to compute square roots has

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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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(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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b) Use a suitable shared library mechanism for linking with the

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

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1.46 device-mapper-multipath 0.4.7 :54.el5

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1.47 dhcpv6 1.0.10 :20.el5

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---

include/cfg.h
include/common.h
include/timer.h
src/cfg.c
src/client6_parse.y
src/client6_token.l
src/common.c
src/dhcp6c.c
src/dhcp6s.c
src/timer.c

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*/

include/hash.h
include/lease.h
include/server6_conf.h
src/client6_addr.c
src/dad_token.l
src/hash.c
src/lease.c
src/lease_token.l
src/netlink.c
src/radvd_token.l
src/resolv_token.l
src/server6_addr.c
src/server6_conf.c
src/server6_parse.y
src/server6_token.l
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*/

include/dhcp6r.h
include/relay6_database.h
include/relay6_parser.h
include/relay6_socket.h
src/dhcp6r.c
src/relay6_database.c
src/relay6_parser.c
src/relay6_socket.c
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include/dhc6_alloc.h
include/dhcp6client.h
include/libdhcp_control.h
src/dhc6_alloc.c
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1.49 dmidecode 2.11 :1.el5

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Theodore Ts'o
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Theodore Ts'o
15-Mar-2003

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To do so, attach the following notices to the program. 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 program's name and a brief idea of what it does.>
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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may

be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989
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1.55 esound 0.2.36 :4

1.55.1 Available under license :

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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.

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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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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.

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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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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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1.56 esound_esdplay 0.2.36 :4

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o freetype@nongnu.org

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o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues,
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Our home page can be found at

http://www.freetype.org

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```
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#
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```

1.65 gawk 3.1.5 :16.el5

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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.

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:

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

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1.66 GConf2 2.14.0 :9.el5

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[This is the first released version of the library GPL. It is
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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.

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"Source code" for a work means the preferred form of the work for

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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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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,
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exercise the right to control the distribution of derivative or
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that version instead if you wish.) Do not make any other change in
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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.

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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 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

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.67 gdb 7.0.1 :45.el5

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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.

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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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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

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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.)

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.

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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.

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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.

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Version 3, 29 June 2007

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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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.

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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.

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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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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.

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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

That's all there is to it!

1.71 gettext 0.17 :1.el5

1.71.1 Available under license :

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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

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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 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.

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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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1.72 gfs2-utils 0.1.62 :35.el5

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all: tag_libgfs2 tag_convert tag_edit tag_fsck tag_mkfs tag_mount tag_tool

tag_libgfs2:
 ${MAKE} -C libgfs2 all
tag_convert:
 ${MAKE} -C convert all
tag_edit:
 ${MAKE} -C edit all
tag_fsck:
 ${MAKE} -C fsck all
tag_mkfs:
 ${MAKE} -C mkfs all
tag_mount:
 ${MAKE} -C mount all
tag_quota:
 ${MAKE} -C quota all
tag_tool:
 ${MAKE} -C tool all

clean:
 ${MAKE} -C libgfs2 clean
 ${MAKE} -C convert clean
 ${MAKE} -C edit clean
 ${MAKE} -C fsck clean
 ${MAKE} -C mkfs clean
 ${MAKE} -C mount clean
 ${MAKE} -C quota clean
 ${MAKE} -C tool clean

distclean: clean
 rm -f make/defines.mk

install: all
 ${MAKE} -C convert install
 ${MAKE} -C edit install
 ${MAKE} -C fsck install
 ${MAKE} -C init.d install
 ${MAKE} -C man install
 ${MAKE} -C mkfs install
```

```
 ${MAKE} -C mount install
 ${MAKE} -C quota install
 ${MAKE} -C tool install

deinstall uninstall:
 ${MAKE} -C convert uninstall
 ${MAKE} -C edit uninstall
 ${MAKE} -C fsck uninstall
 ${MAKE} -C init.d uninstall
 ${MAKE} -C man uninstall
 ${MAKE} -C mkfs uninstall
 ${MAKE} -C mount uninstall
 ${MAKE} -C quota uninstall
 ${MAKE} -C tool uninstall
```

1.73 glib2 2.12.3 :4.el5_3.1

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1.76 glibc/gpl-executables 2.5 :123.el5_11.1

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1.78 gnome-keyring 0.6.0 :1.fc6

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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.

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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.

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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.

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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 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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1.79 gnome-mime-data 2.4.2 :3.1

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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parts of the General Public License. Of course, the commands you use may
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```
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1.81 gnome-python2 2.16.0 :1.fc6

1.81.1 Available under license :

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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.

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1.82 gnome-vfs2 2.16.2 :10.el5

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. 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 program's name and a brief idea of what it does.>

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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.

<signature of Ty Coon>, 1 April 1989
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numbered 2 because it goes with version 2 of the ordinary GPL.]

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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.

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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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1.83 gnutls 1.4.1 :16.el5_10

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. 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 program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.87 gtk2 2.10.4 :29.el5

1.87.1 Available under license :

```
                GNU LESSER GENERAL PUBLIC LICENSE
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the version number 2.1.]

                    Preamble

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```

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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 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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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

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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

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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

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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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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

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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.

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1.88 gtk2-engines 2.8.0 :3.el5

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* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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* cvt - IEEE floating point formatting routines.

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<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a href="./faq/">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a href="./sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.2</p>
<img alt="" src="./images/feather.gif" /></div>
<div class="up"><a href="./"><img title="<-" alt="<-" src="./images/left.gif" /></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a href="http://httpd.apache.org/docs/">Documentation</a> > <a href="./">Version 2.2</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
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file_io/unix/mktemp.c, strings/apr_strings.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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Written by: Philip Hazel <ph10@cam.ac.uk>

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* ----------------------------------------------------------------------------
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```

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```

For the xml\expat\conftools\install-sh component:

```
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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==========

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a
href="./faq/">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a href="./sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.2</p>
<img alt="" src="./images/feather.gif" /></div>
<div class="up"><a href="./"><img title="<-" alt="<-" src="./images/left.gif" /></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="./">Version 2.2</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="./en/license.html" title="English"> en </a></p>
</div>

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* httpd@ncsa.uiuc.edu
*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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```

From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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Written by: Philip Hazel <ph10@cam.ac.uk>

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End
<?xml version="1.0" encoding="ISO-8859-1"?>
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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
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<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar">
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Thanks to the following people for their input:
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*/
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1.100 iptables 1.3.5 :9.2.el5_8

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1.101 iputils 20020927 :46.el5

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*/
/*
*     Modified for NRL 4.4BSD IPv6 release.
*     07/31/96 bgp
*
*     Search for "#ifdef NRL" to find the changes.
*/
```

```
/*
* Modified for Linux IPv6 by Pedro Roque <roque@di.fc.ul.pt>
* 31/07/1996
*
* As ICMP error messages for IPv6 now include more than 8 bytes
* UDP datagrams are now sent via an UDP socket instead of magic
* RAW socket tricks.
*
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*/

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*/
```

```
/* Mode: C;
* ifenslave.c: Configure network interfaces for parallel routing.
*
* This program controls the Linux implementation of running multiple
* network interfaces in parallel.
*
* Author: Donald Becker <becker@cesdis.gsfc.nasa.gov>
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*    Code 930.5, Goddard Space Flight Center, Greenbelt MD 20771
*
*  Changes :
*    - 2000/10/02 Willy Tarreau <willy at meta-x.org> :
*      - few fixes. Master's MAC address is now correctly taken from
*        the first device when not previously set ;
*      - detach support : call BOND_RELEASE to detach an enslaved interface.
*      - give a mini-howto from command-line help : # ifenslave -h
*
*    - 2001/02/16 Chad N. Tindel <ctindel at ieee dot org> :
*      - Master is now brought down before setting the MAC address.  In
*        the 2.4 kernel you can't change the MAC address while the device is
*        up because you get EBUSY.
*
*    - 2001/09/13 Takao Indoh <indou dot takao at jp dot fujitsu dot com>
*      - Added the ability to change the active interface on a mode 1 bond
*        at runtime.
*
*    - 2001/10/23 Chad N. Tindel <ctindel at ieee dot org> :
*      - No longer set the MAC address of the master.  The bond device will
*        take care of this itself
*      - Try the SIOC*** versions of the bonding ioctls before using the
*        old versions
*    - 2002/02/18 Erik Habbinga <erik_habbinga @ hp dot com> :
*      - ifr2.ifr_flags was not initialized in the hwaddr_notset case,
*        SIOCGIFFLAGS now called before hwaddr_notset test
*
*    - 2002/10/31 Tony Cureington <tony.cureington * hp_com> :
*      - If the master does not have a hardware address when the first slave
*        is enslaved, the master is assigned the hardware address of that
*        slave - there is a comment in bonding.c stating "ifenslave takes
*        care of this now." This corrects the problem of slaves having
*        different hardware addresses in active-backup mode when
```

```
*       multiple interfaces are specified on a single ifenslave command
*       (ifenslave bond0 eth0 eth1).
*
*    - 2003/03/18 - Tsippy Mendelson <tsippy.mendelson at intel dot com> and
*                   Shmulik Hen <shmulik.hen at intel dot com>
*      - Moved setting the slave's mac address and openning it, from
*        the application to the driver. This enables support of modes
*        that need to use the unique mac address of each slave.
*        The driver also takes care of closing the slave and restoring its
*        original mac address upon release.
*        In addition, block possibility of enslaving before the master is up.
*        This prevents putting the system in an undefined state.
*
*    - 2003/05/01 - Amir Noam <amir.noam at intel dot com>
*      - Added ABI version control to restore compatibility between
*        new/old ifenslave and new/old bonding.
*      - Prevent adding an adapter that is already a slave.
*        Fixes the problem of stalling the transmission and leaving
*        the slave in a down state.
*
*    - 2003/05/01 - Shmulik Hen <shmulik.hen at intel dot com>
*      - Prevent enslaving if the bond device is down.
*        Fixes the problem of leaving the system in unstable state and
*        halting when trying to remove the module.
*      - Close socket on all abnormal exists.
*      - Add versioning scheme that follows that of the bonding driver.
*        current version is 1.0.0 as a base line.
*
*    - 2003/05/22 - Jay Vosburgh <fubar at us dot ibm dot com>
*  - ifenslave -c was broken; it's now fixed
*  - Fixed problem with routes vanishing from master during enslave
*    processing.
*
*    - 2003/05/27 - Amir Noam <amir.noam at intel dot com>
*  - Fix backward compatibility issues:
*    For drivers not using ABI versions, slave was set down while
*    it should be left up before enslaving.
*    Also, master was not set down and the default set_mac_address()
*    would fail and generate an error message in the system log.
*   - For opt_c: slave should not be set to the master's setting
*    while it is running. It was already set during enslave. To
*    simplify things, it is now handeled separately.
*
*    - 2003/12/01 - Shmulik Hen <shmulik.hen at intel dot com>
*  - Code cleanup and style changes
*    set version to 1.1.0
*/
```

1.102 kbd 1.12 :22.el5

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 spawn_console.c spawn_login.c
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1.103 kernel 2.6.18 :400.1.1.el5

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1.104 kernel 2.6.18 :18-417.el5

1.104.1 Available under license :

Date: Thu, 29 Apr 2004 14:10:41 -0700 (PDT)
From: Linus Torvalds <torvalds@osdl.org>
To: Giuliano Colla
cc: Linux Kernel Mailing List <linux-kernel@vger.kernel.org>
Subject: Re: [hsflinux] [PATCH] Blacklist binary-only modules lying about their license
Message-ID: <Pine.LNX.4.58.0404291404100.1629@ppc970.osdl.org>

On Thu, 29 Apr 2004, Giuliano Colla wrote:
>
> Let's try not to be ridiculous, please.

It's not abotu being ridiculous. It's about honoring peoples copyrights.

> As an end user, if I buy a full fledged modem, I get some amount of
> proprietary, non GPL, code which executes within the board or the
> PCMCIA card of the modem. The GPL driver may even support the
> functionality of downloading a new version of *proprietary* code into
> the flash Eprom of the device. The GPL linux driver interfaces with it,
> and all is kosher.

Indeed. Everything is kosher, because the other piece of hardware and

software has _nothing_ to do with the kernel. It's not linked into it, it
cannot reasonably corrupt internal kernel data structures with random
pointer bugs, and in general you can think of firmware as part of the
hardware, not the software of the machine.

> On the other hand, I have the misfortune of being stuck with a
> soft-modem, roughly the *same* proprietary code is provided as a binary
> file, and a linux driver (source provided) interfaces with it. In that
> case the kernel is flagged as "tainted".

It is flagged as tainted, because your argument that it is "the same code"
is totally BOGUS AND UNTRUE!

In the binary kernel module case, a bug in the code corrupts random data
structures, or accesses kernel internals without holding the proper locks,
or does a million other things wrong, BECAUSE A KERNEL MODULE IS VERY
INTIMATELY LINKED WITH THE KERNEL.

A kernel module is _not_ a separate work, and can in _no_ way be seen as
"part of the hardware". It's very much a part of the _kernel_. And the
kernel developers require that such code be GPL'd so that it can be fixed,
or if there's a valid argument that it's not a derived work and not GPL'd,
then the kernel developers who have to support the end result mess most
definitely do need to know about the taint.

You are not the first (and sadly, you likely won't be the last) person to
equate binary kernel modules with binary firmware. And I tell you that
such a comparison is ABSOLUTE CRAPOLA. There's a damn big difference
between running firmware on another chip behind a PCI bus, and linking
into the kernel directly.

And if you don't see that difference, then you are either terminally
stupid, or you have some ulterior reason to claim that they are the same
case even though they clearly are NOT.

> Can you honestly tell apart the two cases, if you don't make a it a case
> of "religion war"?

It has absolutely nothing to do with religion.

Linus

Date: Fri, 5 Dec 2003 09:19:52 -0800 (PST)
From: Linus Torvalds <torvalds@osdl.org>
To: Peter Chubb
cc: linux-kernel@vger.kernel.org
Subject: Re: Linux GPL and binary module exception clause?
Message-ID: <Pine.LNX.4.58.0312050853200.9125@home.osdl.org>

On Fri, 5 Dec 2003, Peter Chubb wrote:
>
> As I understand it, SCO is/was claiming that JFS and XFS are derived
> works of the UNIX source base, because they were developed to match
> the internal interfaces of UNIX, and with knowledge of the internals
> of UNIX -- and they hold the copyrights of and are the licensor of UNIX.

Yes, and I'm not claiming anything like that.

I claim that a "binary linux kernel module" is a derived work of the kernel, and thus has to come with sources.

But if you use those same sources (and _you_ wrote them) they do not contain any Linux code, they are _clearly_ not derived from Linux, and you can license and use your own code any way you want.

You just can't make a binary module for Linux, and claim that that module isn't derived from the kernel. Because it generally is - the binary module not only included header files, but more importantly it clearly is _not_ a standalone work any more. So even if you made your own prototypes and tried hard to avoid kernel headers, it would _still_ be connected and dependent on the kernel.

And note that I'm very much talking about just the _binary_. Your source code is still very much yours, and you have the right to distribute it separately any which way you want. You wrote it, you own the copyrights to it, and it is an independent work.

But when you distribute it in a way that is CLEARLY tied to the GPL'd kernel (and a binary module is just one such clear tie - a "patch" to build it or otherwise tie it to the kernel is also such a tie, even if you distribute it as source under some other license), you're BY DEFINITION not an independent work any more.

(But exactly because I'm not a black-and-white person, I reserve the right to make a balanced decision on any particular case. I have several times felt that the module author had a perfectly valid argument for why the "default assumption" of being derived wasn't the case. That's why things like the AFS module were accepted - but not liked - in the first place).

This is why SCO's arguments are specious. IBM wrote their code, retained their copyrights to their code AND THEY SEVERED THE CONNECTION TO SCO'S CODE (and, arguably the connections didn't even exist in the first place, since apparently things like JFS were written for OS/2 as well, and the Linux port was based on that one - but that's a separate argument and independent of my point).

See the definition of "derivative" in USC 17.1.101:

> A "derivative work" is a work based upon one or more preexisting
> works, such as a translation, musical arrangement, dramatization,
> fictionalization, motion picture version, sound recording, art
> reproduction, abridgment, condensation, or any other form in which
> a work may be recast, transformed, or adapted. A work consisting
> of editorial revisions, annotations, elaborations, or other
> modifications which, as a whole, represent an original work of
> authorship, is a "derivative work".

And a binary module is an "elaboration" on the kernel. Sorry, but that is
how it IS.

In short: your code is yours. The code you write is automatically
copyrighted by YOU, and as such you have the right to license and use it
any way you want (well, modulo _other_ laws, of course - in the US your
license can't be racist, for example, but that has nothing to do with
copyright laws, and would fall under a totally different legal framework).

But when you use that code to create an "elaboration" to the kernel, that
makes it a derived work, and you cannot distribute it except as laid out
by the GPL. A binary module is one such case, but even just a source patch
is _also_ one such case. The lines you added are yours, but when you
distribute it as an elaboration, you are bound by the restriction on
derivative works.

Or you had better have some other strong argument why it isn't. Which has
been my point all along.

Linus

Date: Wed, 10 Dec 2003 09:10:18 -0800 (PST)
From: Linus Torvalds <torvalds@osdl.org>
To: Larry McVoy
Subject: Re: Linux GPL and binary module exception clause?

On Wed, 10 Dec 2003, Larry McVoy wrote:
>
> Which is? How is it that you can spend a page of text saying a judge doesn't
> care about technicalities and then base the rest of your argument on the
> distinction between a "plugin" and a "kernel module"?

I'll stop arguing, since you obviously do not get it.

I explained the technicalities to _you_, and you are a technical person.

But if you want to explain something to a judge, you get a real lawyer, and you make sure that the lawyer tries to explain the issue in _non_ technical terms. Because, quite frankly, the judge is not going to buy a technical discussion he or she doesn't understand.

Just as an example, how do you explain to a judge how much code the Linux kernel contains? Do you say "it's 6 million lines of C code and header files and documentation, for a total of about 175MB of data"?

Yeah, maybe you'd _mention_ that, but to actually _illustrate_ the point you'd say that if you printed it out, it would be a solid stack of papers 100 feet high. And you'd compare it to the height of the court building you're in, or something. Maybe you'd print out _one_ file, bind it as a book, and wave it around as one out of 15,000 files.

But when _you_ ask me about how big the kernel is, I'd say "5 million lines". See the difference? It would be silly for me to tell you how many feet of paper the kernel would print out to, because we don't have those kinds of associations.

Similarly, if you want to explain the notion of a kernel module, you'd compare it to maybe an extra chapter in a book. You'd make an analogy to something that never _ever_ mentions "linking".

Just imagine: distributing a compiled binary-only kernel module that can be loaded into the kernel is not like distributing a new book: it's more like distributing a extra chapter to a book that somebody else wrote, that uses all the same characters and the plot, but more importantly it literally can only be read _together_ with the original work. It doesn't stand alone.

In short, your honour, this extra chapter without any meaning on its own is a derived work of the book.

In contrast, maybe you can re-write your code and distribute it as a short-story, which can be run on its own, and maybe the author has been influenced by another book, but the short-story could be bound AS IS, and a recipient would find it useful even without that other book. In that case, the short story is not a derived work - it's only inspired.

Notice? This is actually _exactly_ what I've been arguing all along, except I've been arguing with a technical audience, so I've been using technical examples and terminology. But my argument is that just the fact that somebody compiled the code for Linux into a binary module that is useless without a particular version of the kernel DOES MAKE IT A DERIVED WORK.

But also note how it's only the BINARY MODULE that is a derived work. Your

source code is _not_ necessarily a derived work, and if you compile it for another operating system, I'd clearly not complain.

This is the "stand-alone short story" vs "extra chapter without meaning outside the book" argument. See? One is a work in its own right, the other isn't.

Linus

Please read the FAQ at http://www.tux.org/lkml/
Date: Thu, 4 Dec 2003 22:43:42 -0800 (PST)
From: Linus Torvalds <torvalds@osdl.org>
To: David Schwartz
cc: linux-kernel@vger.kernel.org
Subject: RE: Linux GPL and binary module exception clause?

On Thu, 4 Dec 2003, David Schwartz wrote:
>
> Yes, but they will cite the prohibition against *creating* derived
> works.

So?

The same prohibition exists with the GPL. You are not allowed to create and distribute a derived work unless it is GPL'd.

I don't see what you are arguing against. It is very clear: a kernel module is a derived work of the kernel by default. End of story.

You can then try to prove (through development history etc) that there would be major reasons why it's not really derived. But your argument seems to be that _nothing_ is derived, which is clearly totally false, as you yourself admit when you replace "kernel" with "Harry Potter".

Linus

Date: Wed, 3 Dec 2003 16:00:21 -0800 (PST)
From: Linus Torvalds <torvalds@osdl.org>
To: Kendall Bennet
cc: linux-kernel@vger.kernel.org
Subject: Re: Linux GPL and binary module exception clause?

On Wed, 3 Dec 2003, Kendall Bennett wrote:
>
> I have heard many people reference the fact that the although the Linux
> Kernel is under the GNU GPL license, that the code is licensed with an
> exception clause that says binary loadable modules do not have to be

> under the GPL.

Nope. No such exception exists.

There's a clarification that user-space programs that use the standard system call interfaces aren't considered derived works, but even that isn't an "exception" - it's just a statement of a border of what is clearly considered a "derived work". User programs are _clearly_ not derived works of the kernel, and as such whatever the kernel license is just doesn't matter.

And in fact, when it comes to modules, the GPL issue is exactly the same. The kernel _is_ GPL. No ifs, buts and maybe's about it. As a result, anything that is a derived work has to be GPL'd. It's that simple.

Now, the "derived work" issue in copyright law is the only thing that leads to any gray areas. There are areas that are not gray at all: user space is clearly not a derived work, while kernel patches clearly _are_ derived works.

But one gray area in particular is something like a driver that was originally written for another operating system (ie clearly not a derived work of Linux in origin). At exactly what point does it become a derived work of the kernel (and thus fall under the GPL)?

THAT is a gray area, and _that_ is the area where I personally believe that some modules may be considered to not be derived works simply because they weren't designed for Linux and don't depend on any special Linux behaviour.

Basically:
- anything that was written with Linux in mind (whether it then _also_ works on other operating systems or not) is clearly partially a derived work.
- anything that has knowledge of and plays with fundamental internal Linux behaviour is clearly a derived work. If you need to muck around with core code, you're derived, no question about it.

Historically, there's been things like the original Andrew filesystem module: a standard filesystem that really wasn't written for Linux in the first place, and just implements a UNIX filesystem. Is that derived just because it got ported to Linux that had a reasonably similar VFS interface to what other UNIXes did? Personally, I didn't feel that I could make that judgment call. Maybe it was, maybe it wasn't, but it clearly is a gray area.

Personally, I think that case wasn't a derived work, and I was willing to tell the AFS guys so.

Does that mean that any kernel module is automatically not a derived work?
HELL NO! It has nothing to do with modules per se, except that non-modules
clearly are derived works (if they are so central to the kenrel that you
can't load them as a module, they are clearly derived works just by virtue
of being very intimate - and because the GPL expressly mentions linking).

So being a module is not a sign of not being a derived work. It's just
one sign that _maybe_ it might have other arguments for why it isn't
derived.

Linus

Date: Wed, 3 Dec 2003 16:23:33 -0800 (PST)
From: Linus Torvalds <torvalds@osdl.org>
To: Kendall Bennett
cc: linux-kernel@vger.kernel.org
Subject: Re: Linux GPL and binary module exception clause?

On Wed, 3 Dec 2003, Linus Torvalds wrote:
>
> So being a module is not a sign of not being a derived work. It's just
> one sign that _maybe_ it might have other arguments for why it isn't
> derived.

Side note: historically, the Linux kernel module interfaces were really
quite weak, and only exported a few tens of entry-points, and really
mostly effectively only allowed character and block device drivers with
standard interfaces, and loadable filesystems.

So historically, the fact that you could load a module using nothing but
these standard interfaces tended to be a much stronger argument for not
being very tightly coupled with the kernel.

That has changed, and the kernel module interfaces we have today are MUCH
more extensive than they were back in '95 or so. These days modules are
used for pretty much everything, including stuff that is very much
"internal kernel" stuff and as a result the kind of historic "implied
barrier" part of modules really has weakened, and as a result there is not
avery strong argument for being an independent work from just the fact
that you're a module.

Similarly, historically there was a much stronger argument for things like
AFS and some of the binary drivers (long forgotten now) for having been
developed totally independently of Linux: they literally were developed
before Linux even existed, by people who had zero knowledge of Linux. That

tends to strengthen the argument that they clearly aren't derived.

In contrast, these days it would be hard to argue that a new driver or filesystem was developed without any thought of Linux. I think the NVidia people can probably reasonably honestly say that the code they ported had _no_ Linux origin. But quite frankly, I'd be less inclined to believe that for some other projects out there..

Linus

Date: Thu, 17 Oct 2002 10:08:19 -0700 (PDT)
From: Linus Torvalds <torvalds@transmeta.com>
To: Christoph Hellwig
Cc: <linux-kernel@vger.kernel.org>
Subject: Re: [PATCH] make LSM register functions GPLonly exports
In-Reply-To: <20021017175403.A32516@infradead.org>
Message-ID: <Pine.LNX.4.44.0210170958340.6739-100000@home.transmeta.com>

Note that if this fight ends up being a major issue, I'm just going to remove LSM and let the security vendors do their own thing. So far

- I have not seen a lot of actual usage of the hooks
- seen a number of people who still worry that the hooks degrade performance in critical areas
- the worry that people use it for non-GPL'd modules is apparently real, considering Crispin's reply.

I will re-iterate my stance on the GPL and kernel modules:

There is NOTHING in the kernel license that allows modules to be non-GPL'd.

The _only_ thing that allows for non-GPL modules is copyright law, and in particular the "derived work" issue. A vendor who distributes non-GPL modules is _not_ protected by the module interface per se, and should feel very confident that they can show in a court of law that the code is not derived.

The module interface has NEVER been documented or meant to be a GPL barrier. The COPYING clearly states that the system call layer is such a barrier, so if you do your work in user land you're not in any way beholden to the GPL. The module interfaces are not system calls: there are system calls used to _install_ them, but the actual interfaces are not.

The original binary-only modules were for things that were pre-existing
works of code, ie drivers and filesystems ported from other operating
systems, which thus could clearly be argued to not be derived works, and
the original limited export table also acted somewhat as a barrier to
show a level of distance.

In short, Crispin: I'm going to apply the patch, and if you as a copyright
holder of that file disagree, I will simply remove all of he LSM code from
the kernel. I think it's very clear that a LSM module is a derived work,
and thus copyright law and the GPL are not in any way unclear about it.

If people think they can avoid the GPL by using function pointers, they
are WRONG. And they have always been wrong.

Linus

Date: Fri, 19 Oct 2001 13:16:45 -0700 (PDT)
From: Linus Torvalds <torvalds@transmeta.com>
To: Barnes
Subject: Re: GPL, Richard Stallman, and the Linux kernel

[This is not, of course, a legal document, but if you want to forward it
to anybody else, feel free to do so. And if you want to argue legal
points with me or point somehting out, I'm always interested. To a
point ;-]

On Fri, 19 Oct 2001, Barnes wrote:
>
> I've been exchanging e-mail with Richard Stallman for a couple of
> weeks about the finer points of the GPL.

I feel your pain.

> I've have spent time pouring through mailing list archives, usenet,
> and web search engines to find out what's already been covered about
> your statement of allowing dynamically loaded kernel modules with
> proprietary code to co-exist with the Linux kernel. So far I've
> been unable to find anything beyond vague statements attributed to
> you. If these issues are addressed somewhere already, please refer
> me.

Well, it really boils down to the equivalent of "_all_ derived modules
have to be GPL'd". An external module doesn't really change the GPL in
that respect.

There are (mainly historical) examples of UNIX device drivers and some
UNIX filesystems that were pre-existing pieces of work, and which had

fairly well-defined and clear interfaces and that I personally could not really consider any kind of "derived work" at all, and that were thus acceptable. The clearest example of this is probably the AFS (the Andrew Filesystem), but there have been various device drivers ported from SCO too.

> Issue #1
> ========
> Currently the GPL version 2 license is the only license covering the
> Linux kernel. I cannot find any alternative license explaining the
> loadable kernel module exception which makes your position difficult
> to legally analyze.
>
> There is a note at the top of www.kernel.org/pub/linux/kernel/COPYING,
> but that states "user programs" which would clearly not apply to
> kernel modules.
>
> Could you clarify in writing what the exception precisely states?

Well, there really is no exception. However, copyright law obviously hinges on the definition of "derived work", and as such anything can always be argued on that point.

I personally consider anything a "derived work" that needs special hooks in the kernel to function with Linux (ie it is _not_ acceptable to make a small piece of GPL-code as a hook for the larger piece), as that obviously implies that the bigger module needs "help" from the main kernel.

Similarly, I consider anything that has intimate knowledge about kernel internals to be a derived work.

What is left in the gray area tends to be clearly separate modules: code that had a life outside Linux from the beginning, and that do something self-containted that doesn't really have any impact on the rest of the kernel. A device driver that was originally written for something else, and that doesn't need any but the standard UNIX read/write kind of interfaces, for example.

> Issue #2
> ========
> I've found statements attributed to you that you think only 10% of
> the code in the current kernel was written by you. By not being the
> sole copyright holder of the Linux kernel, a stated exception to
> the GPL seems invalid unless all kernel copyright holders agreed on
> this exception. How does the exception cover GPL'd kernel code not
> written by you? Has everyone contributing to the kernel forfeited
> their copyright to you or agreed with the exception?

Well, see above about the lack of exception, and about the fundamental gray area in _any_ copyright issue. The "derived work" issue is obviously a gray area, and I know lawyers don't like them. Crazy people (even judges) have, as we know, claimed that even obvious spoofs of a work that contain nothing of the original work itself, can be ruled to be "derived".

I don't hold views that extreme, but at the same time I do consider a module written for Linux and using kernel infrastructures to get its work done, even if not actually copying any existing Linux code, to be a derived work by default. You'd have to have a strong case to _not_ consider your code a derived work..

> Issue #3
> ========
> This issue is related to issue #1. Exactly what is covered by the
> exception? For example, all code shipped with the Linux kernel
> archive and typically installed under /usr/src/linux, all code under
> /usr/src/linux except /usr/src/linux/drivers, or just the code in
> the /usr/src/linux/kernel directory?

See above, and I think you'll see my point.

The "user program" exception is not an exception at all, for example, it's just a more clearly stated limitation on the "derived work" issue. If you use standard UNIX system calls (with accepted Linux extensions), your program obviously doesn't "derive" from the kernel itself.

Whenever you link into the kernel, either directly or through a module, the case is just a _lot_ more muddy. But as stated, by default it's obviously derived - the very fact that you _need_ to do something as fundamental as linking against the kernel very much argues that your module is not a stand-alone thing, regardless of where the module source code itself has come from.

> Issue #4
> ========
> This last issue is not so much a issue for the Linux kernel
> exception, but a request for comment.
>
> Richard and I both agree that a "plug-in" and a "dynamically
> loaded kernel module" are effectively the same under the GPL.

Agreed.

The Linux kernel modules had (a long time ago), a more limited interface, and not very many functions were actually exported. So five or six years ago, we could believably claim that "if you only use these N interfaces that are exported from the standard kernel, you've kind of implicitly

proven that you do not need the kernel infrastructure".

That was never really documented either (more of a guideline for me and others when we looked at the "derived work" issue), and as modules were more-and-more used not for external stuff, but just for dynamic loading of standard linux modules that were distributed as part of the kernel anyway, the "limited interfaces" argument is no longer a very good guideline for "derived work".

So these days, we export many internal interfaces, not because we don't think that they would "taint" the linker, but simply because it's useful to do dynamic run-time loading of modules even with standard kernel modules that _are_ supposed to know a lot about kernel internals, and are obviously "derived works"..

> However we disagree that a plug-in for a GPL'd program falls
> under the GPL as asserted in the GPL FAQ found in the answer:
> http://www.gnu.org/licenses/gpl-faq.html#GPLAndPlugins.

I think you really just disagree on what is derived, and what is not. Richard is very extreme: _anything_ that links is derived, regardless of what the arguments against it are. I'm less extreme, and I bet you're even less so (at least you would like to argue so for your company).

> My assertion is that plug-ins are written to an interface, not a
> program. Since interfaces are not GPL'd, a plug-in cannot be GPL'd
> until the plug-in and program are placed together and run. That is
> done by the end user, not the plug-in creator.

I agree, but also disrespectfully disagree ;)

It's an issue of what a "plug-in" is - is it a way for the program to internally load more modules as it needs them, or is it _meant_ to be a public, published interface.

For example, the "system call" interface could be considered a "plug-in interface", and running a user mode program under Linux could easily be construed as running a "plug-in" for the Linux kernel. No?

And there, I obviously absolutely agree with you 100%: the interface is published, and it's _meant_ for external and independent users. It's an interface that we go to great lengths to preserve as well as we can, and it's an interface that is designed to be independent of kernel versions.

But maybe somebody wrote his program with the intention to dynamically load "actors" as they were needed, as a way to maintain a good modularity, and to try to keep the problem spaces well-defined. In that case, the "plug-in" may technically follow all the same rules as the system call

interface, even though the author doesn't intend it that way.

So I think it's to a large degree a matter of intent, but it could arguably also be considered a matter of stability and documentation (ie "require recompilation of the plug-in between version changes" would tend to imply that it's an internal interface, while "documented binary compatibility across many releases" implies a more stable external interface, and less of a derived work)

Does that make sense to you?

> I asked Richard to comment on several scenarios involving plug-ins
> explain whether or not they were in violation of the GPL. So far he
> as only addressed one and has effectively admitted a hole. This is
> the one I asked that he's responded to:
> [A] non-GPL'd plug-in writer writes a plug-in for a non-GPL'd
> program. Another author writes a GPL'd program making the
> first author's plug-ins compatible with his program. Are now
> the plug-in author's plug-ins now retroactively required to be
> GPL'd?
>
> His response:
> No, because the plug-in was not written to extend this program.
>
> I find it suspicious that whether or not the GPL would apply to the
> plug-in depends on the mindset of the author.

The above makes no sense if you think of it as a "plug in" issue, but it makes sense if you think of it as a "derived work" issue, along with taking "intent" into account.

I know lawyers tend to not like the notion of "intent", because it brings in another whole range of gray areas, but it's obviously a legal reality.

Ok, enough blathering from me. I'd just like to finish off with a few comments, just to clarify my personal stand:

- I'm obviously not the only copyright holder of Linux, and I did so on purpose for several reasons. One reason is just because I hate the paperwork and other cr*p that goes along with copyright assignments.

  Another is that I don't much like copyright assignments at all: the author is the author, and he may be bound by my requirement for GPL, but that doesn't mean that he should give his copyright to me.

  A third reason, and the most relevant reason here, is that I want people to _know_ that I cannot control the sources. I can write you a note to say that "for use XXX, I do not consider module YYY to be a

derived work of my kernel", but that would not really matter that much. Any other Linux copyright holder might still sue you.

This third reason is what makes people who otherwise might not trust me realize that I cannot screw people over. I am bound by the same agreement that I require of everybody else, and the only special status I really have is a totally non-legal issue: people trust me.

(Yes, I realize that I probably would end up having more legal status than most, even apart from the fact that I still am the largest single copyright holder, if only because of appearances)

- I don't really care about copyright law itself. What I care about is my own morals. Whether I'd ever sue somebody or not (and quite frankly, it's the last thing I ever want to do - if I never end up talking to lawyers in a professional context, I'll be perfectly happy. No disrespect intended) will be entirely up to whether I consider what people do to me "moral" or not. Which is why intent matters to me a lot - both the intent of the person/corporation doign the infringement, _and_ the intent of me and others in issues like the module export interface.

  Another way of putting this: I don't care about "legal loopholes" and word-wrangling.

- Finally: I don't trust the FSF. I like the GPL a lot - although not necessarily as a legal piece of paper, but more as an intent. Which explains why, if you've looked at the Linux COPYING file, you may have noticed the explicit comment about "only _this_ particular version of the GPL covers the kernel by default".

  That's because I agree with the GPL as-is, but I do not agree with the FSF on many other matters. I don't like software patents much, for example, but I do not want the code I write to be used as a weapon against companies that have them. The FSF has long been discussing and is drafting the "next generation" GPL, and they generally suggest that people using the GPL should say "v2 or at your choice any later version".

  Linux doesn't do that. The Linux kernel is v2 ONLY, apart from a few files where the author put in the FSF extension (and see above about copyright assignments why I would never remove such an extension).

The "v2 only" issue might change some day, but only after all documented copyright holders agree on it, and only after we've seen what the FSF suggests. From what I've seen so far from the FSF drafts, we're not likely to change our v2-only stance, but there might of course be legal reasons why we'd have to do something like it (ie somebody challenging the GPLv2

in court, and part of it to be found unenforceable or similar would
obviously mean that we'd have to reconsider the license).

Linus

PS. Historically, binary-only modules have not worked well under Linux,
quite regardless of any copyright issues. The kernel just develops too
quickly for binary modules to work well, and nobody really supports them.
Companies like Red Hat etc tend to refuse to have anything to do with
binary modules, because if something goes wrong there is nothing they can
do about it. So I just wanted to let you know that the _legal_ issue is
just the beginning. Even though you probably don't personally care ;)

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That's all there is to it!
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@redhat.com>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

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Radio card (ITT sound processor)

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Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would
like to be mentioned)
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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

FlashPoint Driver Developer's Kit
Version 1.0

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QLogic Linux Fibre Channel HBA Driver

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

```
*
* Hacked October, 1997 by Jawaid 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 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
*
* 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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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
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1.116 libcap 1.10 :26

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1.117 libcroco 0.6.1 :2.1

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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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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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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.

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END OF TERMS AND CONDITIONS

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

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Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, 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!

1.118 libdaemon 0.10 :5.el5

1.118.1 Available under license :

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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.

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.

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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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.

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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.

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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.

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1.119 libdmx 1.0.2 :3.1

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1.120 libdrm 2.0.2 :1.1

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**********/

1.121 libevent 1.4.13 :1

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1.123 libgcrypt 1.4.4 :2009-01-22 Werner Koch

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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.

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:

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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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school, if any, to sign a "copyright disclaimer" for the library, if
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.126 libgnome 2.16.0 :6.el5

1.126.1 Available under license :

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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.]

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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.

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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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"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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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.

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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.)

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.

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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.)

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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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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.)

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Version 2, June 1991

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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.]

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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.

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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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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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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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END OF TERMS AND CONDITIONS

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

That's all there is to it!

1.128 libgnomeui 2.16.0 :5.el5

1.128.1 Available under license :

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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.

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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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1.130 libgsf 1.14.1 :6.1

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1.133 libICE 1.0.1 :2.1

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1.134 libIDL 0.8.7 :1.fc6

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1.135 libidn 0.6.5 :1.1

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1.136 libjpeg 6b :38

1.136.1 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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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.

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DOCUMENTATION ROADMAP
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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.

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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.

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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

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. 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/.
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with body
 send usenet/news.answers/jpeg-faq/part1
 send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
==========

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
PBMPLUS 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 PBMPLUS/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

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.

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1.140 librsvg2 2.16.1 :1.el5

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest
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The hypothetical commands `show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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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.]

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Finally, any free program is threatened constantly by software

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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.

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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.

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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.)

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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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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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That's all there is to it!
/*
rsvg-css.c: Parse CSS basic data types.

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  Authors: Dom Lachowicz <cinamod@hotmail.com>
  Raph Levien <raph@artofcode.com>
*/

/*
  Code largely based on xmltok_impl.c from Expat

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1.143 libSM 1.0.1 :3.1

1.143.1 Available under license :

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1.144 libtalloc 2.0.7 :2.el5

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```
/*
  Unix SMB/CIFS implementation.
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*/

/* Don't expose talloc contexts in Python code. Python does reference
  counting for us, so just create a new top-level talloc context.
*/
%typemap(in, numinputs=0, noblock=1) TALLOC_CTX * {
   $1 = NULL;
}

%define %talloctype(TYPE)
%nodefaultctor TYPE;
%extend TYPE {
   ~TYPE() { talloc_free($self); }
}
%enddef
/*
  Samba Unix SMB/CIFS implementation.

  Samba trivial allocation library - new interface

  NOTE: Please read talloc_guide.txt for full documentation

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    ** NOTE! The following LGPL license applies to the talloc
    ** library. This does NOT imply that all of Samba is released
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```
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*/

/*
 inspired by http://swapped.cc/halloc/
*/

#include "replace.h"
#include "talloc.h"

#ifdef TALLOC_BUILD_VERSION_MAJOR
#if (TALLOC_VERSION_MAJOR != TALLOC_BUILD_VERSION_MAJOR)
#error "TALLOC_VERSION_MAJOR != TALLOC_BUILD_VERSION_MAJOR"
#endif
#endif

#ifdef TALLOC_BUILD_VERSION_MINOR
#if (TALLOC_VERSION_MINOR != TALLOC_BUILD_VERSION_MINOR)
#error "TALLOC_VERSION_MINOR != TALLOC_BUILD_VERSION_MINOR"
#endif
#endif

/* Special macros that are no-ops except when run under Valgrind on
* x86.  They've moved a little bit from valgrind 1.0.4 to 1.9.4 */
#ifdef HAVE_VALGRIND_MEMCHECK_H
      /* memcheck.h includes valgrind.h */
#include <valgrind/memcheck.h>
#elif defined(HAVE_VALGRIND_H)
#include <valgrind.h>
#endif

/* use this to force every realloc to change the pointer, to stress test
  code that might not cope */
#define ALWAYS_REALLOC 0


#define MAX_TALLOC_SIZE 0x10000000
#define TALLOC_MAGIC_BASE 0xe814ec70
```

```
#define TALLOC_MAGIC ( \
 TALLOC_MAGIC_BASE + \
 (TALLOC_VERSION_MAJOR << 12) + \
 (TALLOC_VERSION_MINOR << 4) \
)

#define TALLOC_FLAG_FREE 0x01
#define TALLOC_FLAG_LOOP 0x02
#define TALLOC_FLAG_POOL 0x04  /* This is a talloc pool */
#define TALLOC_FLAG_POOLMEM 0x08 /* This is allocated in a pool */
#define TALLOC_MAGIC_REFERENCE ((const char *)1)

/* by default we abort when given a bad pointer (such as when talloc_free() is called
  on a pointer that came from malloc() */
#ifndef TALLOC_ABORT
#define TALLOC_ABORT(reason) abort()
#endif

#ifndef discard_const_p
#if defined(__intptr_t_defined) || defined(HAVE_INTPTR_T)
# define discard_const_p(type, ptr) ((type *)((intptr_t)(ptr)))
#else
# define discard_const_p(type, ptr) ((type *)(ptr))
#endif
#endif

/* these macros gain us a few percent of speed on gcc */
#if (__GNUC__ >= 3)
/* the strange !! is to ensure that __builtin_expect() takes either 0 or 1
  as its first argument */
#ifndef likely
#define likely(x)   __builtin_expect(!!(x), 1)
#endif
#ifndef unlikely
#define unlikely(x) __builtin_expect(!!(x), 0)
#endif
#else
#ifndef likely
#define likely(x) (x)
#endif
#ifndef unlikely
#define unlikely(x) (x)
#endif
#endif

/* this null_context is only used if talloc_enable_leak_report() or
  talloc_enable_leak_report_full() is called, otherwise it remains
  NULL
```

```
*/
static void *null_context;
static void *autofree_context;

/* used to enable fill of memory on free, which can be useful for
* catching use after free errors when valgrind is too slow
*/
static struct {
 bool initialised;
 bool enabled;
 uint8_t fill_value;
} talloc_fill;

#define TALLOC_FILL_ENV "TALLOC_FREE_FILL"

/*
* do not wipe the header, to allow the
* double-free logic to still work
*/
#define TC_INVALIDATE_FULL_FILL_CHUNK(_tc) do { \
 if (unlikely(talloc_fill.enabled)) { \
  size_t _flen = (_tc)->size; \
  char *_fptr = (char *)TC_PTR_FROM_CHUNK(_tc); \
  memset(_fptr, talloc_fill.fill_value, _flen); \
 } \
} while (0)

#if defined(DEVELOPER) && defined(VALGRIND_MAKE_MEM_NOACCESS)
/* Mark the whole chunk as not accessable */
#define TC_INVALIDATE_FULL_VALGRIND_CHUNK(_tc) do { \
 size_t _flen = TC_HDR_SIZE + (_tc)->size; \
 char *_fptr = (char *)(_tc); \
 VALGRIND_MAKE_MEM_NOACCESS(_fptr, _flen); \
} while(0)
#else
#define TC_INVALIDATE_FULL_VALGRIND_CHUNK(_tc) do { } while (0)
#endif

#define TC_INVALIDATE_FULL_CHUNK(_tc) do { \
 TC_INVALIDATE_FULL_FILL_CHUNK(_tc); \
 TC_INVALIDATE_FULL_VALGRIND_CHUNK(_tc); \
} while (0)

#define TC_INVALIDATE_SHRINK_FILL_CHUNK(_tc, _new_size) do { \
 if (unlikely(talloc_fill.enabled)) { \
  size_t _flen = (_tc)->size - (_new_size); \
  char *_fptr = (char *)TC_PTR_FROM_CHUNK(_tc); \
  _fptr += (_new_size); \
```

```
  memset(_fptr, talloc_fill.fill_value, _flen); \
 } \
} while (0)

#if defined(DEVELOPER) && defined(VALGRIND_MAKE_MEM_NOACCESS)
/* Mark the unused bytes not accessable */
#define TC_INVALIDATE_SHRINK_VALGRIND_CHUNK(_tc, _new_size) do { \
 size_t _flen = (_tc)->size - (_new_size); \
 char *_fptr = (char *)TC_PTR_FROM_CHUNK(_tc); \
 _fptr += (_new_size); \
 VALGRIND_MAKE_MEM_NOACCESS(_fptr, _flen); \
} while (0)
#else
#define TC_INVALIDATE_SHRINK_VALGRIND_CHUNK(_tc, _new_size) do { } while (0)
#endif

#define TC_INVALIDATE_SHRINK_CHUNK(_tc, _new_size) do { \
 TC_INVALIDATE_SHRINK_FILL_CHUNK(_tc, _new_size); \
 TC_INVALIDATE_SHRINK_VALGRIND_CHUNK(_tc, _new_size); \
} while (0)

#define TC_UNDEFINE_SHRINK_FILL_CHUNK(_tc, _new_size) do { \
 if (unlikely(talloc_fill.enabled)) { \
  size_t _flen = (_tc)->size - (_new_size); \
  char *_fptr = (char *)TC_PTR_FROM_CHUNK(_tc); \
  _fptr += (_new_size); \
  memset(_fptr, talloc_fill.fill_value, _flen); \
 } \
} while (0)

#if defined(DEVELOPER) && defined(VALGRIND_MAKE_MEM_UNDEFINED)
/* Mark the unused bytes as undefined */
#define TC_UNDEFINE_SHRINK_VALGRIND_CHUNK(_tc, _new_size) do { \
 size_t _flen = (_tc)->size - (_new_size); \
 char *_fptr = (char *)TC_PTR_FROM_CHUNK(_tc); \
 _fptr += (_new_size); \
 VALGRIND_MAKE_MEM_UNDEFINED(_fptr, _flen); \
} while (0)
#else
#define TC_UNDEFINE_SHRINK_VALGRIND_CHUNK(_tc, _new_size) do { } while (0)
#endif

#define TC_UNDEFINE_SHRINK_CHUNK(_tc, _new_size) do { \
 TC_UNDEFINE_SHRINK_FILL_CHUNK(_tc, _new_size); \
 TC_UNDEFINE_SHRINK_VALGRIND_CHUNK(_tc, _new_size); \
} while (0)

#if defined(DEVELOPER) && defined(VALGRIND_MAKE_MEM_UNDEFINED)
```

```
/* Mark the new bytes as undefined */
#define TC_UNDEFINE_GROW_VALGRIND_CHUNK(_tc, _new_size) do { \
 size_t _old_used = TC_HDR_SIZE + (_tc)->size; \
 size_t _new_used = TC_HDR_SIZE + (_new_size); \
 size_t _flen = _new_used - _old_used; \
 char *_fptr = _old_used + (char *)(_tc); \
 VALGRIND_MAKE_MEM_UNDEFINED(_fptr, _flen); \
} while (0)
#else
#define TC_UNDEFINE_GROW_VALGRIND_CHUNK(_tc, _new_size) do { } while (0)
#endif

#define TC_UNDEFINE_GROW_CHUNK(_tc, _new_size) do { \
 TC_UNDEFINE_GROW_VALGRIND_CHUNK(_tc, _new_size); \
} while (0)

struct talloc_reference_handle {
 struct talloc_reference_handle *next, *prev;
 void *ptr;
 const char *location;
};

typedef int (*talloc_destructor_t)(void *);

struct talloc_chunk {
 struct talloc_chunk *next, *prev;
 struct talloc_chunk *parent, *child;
 struct talloc_reference_handle *refs;
 talloc_destructor_t destructor;
 const char *name;
 size_t size;
 unsigned flags;

 /*
  * "pool" has dual use:
  *
  * For the talloc pool itself (i.e. TALLOC_FLAG_POOL is set), "pool"
  * marks the end of the currently allocated area.
  *
  * For members of the pool (i.e. TALLOC_FLAG_POOLMEM is set), "pool"
  * is a pointer to the struct talloc_chunk of the pool that it was
  * allocated from. This way children can quickly find the pool to chew
  * from.
  */
 void *pool;
};

/* 16 byte alignment seems to keep everyone happy */
```

```
#define TC_ALIGN16(s) (((s)+15)&~15)
#define TC_HDR_SIZE TC_ALIGN16(sizeof(struct talloc_chunk))
#define TC_PTR_FROM_CHUNK(tc) ((void *)(TC_HDR_SIZE + (char*)tc))

_PUBLIC_ int talloc_version_major(void)
{
 return TALLOC_VERSION_MAJOR;
}

_PUBLIC_ int talloc_version_minor(void)
{
 return TALLOC_VERSION_MINOR;
}

static void (*talloc_log_fn)(const char *message);

_PUBLIC_ void talloc_set_log_fn(void (*log_fn)(const char *message))
{
 talloc_log_fn = log_fn;
}

static void talloc_log(const char *fmt, ...) PRINTF_ATTRIBUTE(1,2);
static void talloc_log(const char *fmt, ...)
{
 va_list ap;
 char *message;

 if (!talloc_log_fn) {
  return;
 }

 va_start(ap, fmt);
 message = talloc_vasprintf(NULL, fmt, ap);
 va_end(ap);

 talloc_log_fn(message);
 talloc_free(message);
}

static void talloc_log_stderr(const char *message)
{
 fprintf(stderr, "%s", message);
}

_PUBLIC_ void talloc_set_log_stderr(void)
{
 talloc_set_log_fn(talloc_log_stderr);
}
```

```
static void (*talloc_abort_fn)(const char *reason);

_PUBLIC_ void talloc_set_abort_fn(void (*abort_fn)(const char *reason))
{
 talloc_abort_fn = abort_fn;
}

static void talloc_abort(const char *reason)
{
 talloc_log("%s\n", reason);

 if (!talloc_abort_fn) {
  TALLOC_ABORT(reason);
 }

 talloc_abort_fn(reason);
}

static void talloc_abort_magic(unsigned magic)
{
 unsigned striped = magic - TALLOC_MAGIC_BASE;
 unsigned major = (striped & 0xFFFFF000) >> 12;
 unsigned minor = (striped & 0x00000FF0) >> 4;
 talloc_log("Bad talloc magic[0x%08X/%u/%u] expected[0x%08X/%u/%u]\n",
     magic, major, minor,
     TALLOC_MAGIC, TALLOC_VERSION_MAJOR, TALLOC_VERSION_MINOR);
 talloc_abort("Bad talloc magic value - wrong talloc version used/mixed");
}

static void talloc_abort_access_after_free(void)
{
 talloc_abort("Bad talloc magic value - access after free");
}

static void talloc_abort_unknown_value(void)
{
 talloc_abort("Bad talloc magic value - unknown value");
}

/* panic if we get a bad magic value */
static inline struct talloc_chunk *talloc_chunk_from_ptr(const void *ptr)
{
 const char *pp = (const char *)ptr;
 struct talloc_chunk *tc = discard_const_p(struct talloc_chunk, pp - TC_HDR_SIZE);
 if (unlikely((tc->flags & (TALLOC_FLAG_FREE | ~0xF)) != TALLOC_MAGIC)) {
  if ((tc->flags & (~0xFFF)) == TALLOC_MAGIC_BASE) {
   talloc_abort_magic(tc->flags & (~0xF));
```

```
  return NULL;
 }

 if (tc->flags & TALLOC_FLAG_FREE) {
  talloc_log("talloc: access after free error - first free may be at %s\n", tc->name);
  talloc_abort_access_after_free();
  return NULL;
 } else {
  talloc_abort_unknown_value();
  return NULL;
 }
}
return tc;
}

/* hook into the front of the list */
#define _TLIST_ADD(list, p) \
do { \
      if (!(list)) { \
 (list) = (p); \
 (p)->next = (p)->prev = NULL; \
} else { \
 (list)->prev = (p); \
 (p)->next = (list); \
 (p)->prev = NULL; \
 (list) = (p); \
}\
} while (0)

/* remove an element from a list - element doesn't have to be in list. */
#define _TLIST_REMOVE(list, p) \
do { \
if ((p) == (list)) { \
 (list) = (p)->next; \
 if (list) (list)->prev = NULL; \
} else { \
 if ((p)->prev) (p)->prev->next = (p)->next; \
 if ((p)->next) (p)->next->prev = (p)->prev; \
} \
if ((p) && ((p) != (list))) (p)->next = (p)->prev = NULL; \
} while (0)


/*
 return the parent chunk of a pointer
*/
static inline struct talloc_chunk *talloc_parent_chunk(const void *ptr)
{
```

```
 struct talloc_chunk *tc;

 if (unlikely(ptr == NULL)) {
  return NULL;
 }

 tc = talloc_chunk_from_ptr(ptr);
 while (tc->prev) tc=tc->prev;

 return tc->parent;
}

_PUBLIC_ void *talloc_parent(const void *ptr)
{
 struct talloc_chunk *tc = talloc_parent_chunk(ptr);
 return tc? TC_PTR_FROM_CHUNK(tc) : NULL;
}

/*
 find parents name
*/
_PUBLIC_ const char *talloc_parent_name(const void *ptr)
{
 struct talloc_chunk *tc = talloc_parent_chunk(ptr);
 return tc? tc->name : NULL;
}

/*
 A pool carries an in-pool object count count in the first 16 bytes.
 bytes. This is done to support talloc_steal() to a parent outside of the
 pool. The count includes the pool itself, so a talloc_free() on a pool will
 only destroy the pool if the count has dropped to zero. A talloc_free() of a
 pool member will reduce the count, and eventually also call free(3) on the
 pool memory.

 The object count is not put into "struct talloc_chunk" because it is only
 relevant for talloc pools and the alignment to 16 bytes would increase the
 memory footprint of each talloc chunk by those 16 bytes.
*/

#define TALLOC_POOL_HDR_SIZE 16

#define TC_POOL_SPACE_LEFT(_pool_tc) \
 PTR_DIFF(TC_HDR_SIZE + (_pool_tc)->size + (char *)(_pool_tc), \
   (_pool_tc)->pool)

#define TC_POOL_FIRST_CHUNK(_pool_tc) \
 ((void *)(TC_HDR_SIZE + TALLOC_POOL_HDR_SIZE + (char *)(_pool_tc)))
```

```
#define TC_POOLMEM_CHUNK_SIZE(_tc) \
 TC_ALIGN16(TC_HDR_SIZE + (_tc)->size)

#define TC_POOLMEM_NEXT_CHUNK(_tc) \
 ((void *)(TC_POOLMEM_CHUNK_SIZE(tc) + (char*)(_tc)))

/* Mark the whole remaining pool as not accessable */
#define TC_INVALIDATE_FILL_POOL(_pool_tc) do { \
 if (unlikely(talloc_fill.enabled)) { \
  size_t _flen = TC_POOL_SPACE_LEFT(_pool_tc); \
  char *_fptr = (char *)(_pool_tc)->pool; \
  memset(_fptr, talloc_fill.fill_value, _flen); \
 } \
} while(0)

#if defined(DEVELOPER) && defined(VALGRIND_MAKE_MEM_NOACCESS)
/* Mark the whole remaining pool as not accessable */
#define TC_INVALIDATE_VALGRIND_POOL(_pool_tc) do { \
 size_t _flen = TC_POOL_SPACE_LEFT(_pool_tc); \
 char *_fptr = (char *)(_pool_tc)->pool; \
 VALGRIND_MAKE_MEM_NOACCESS(_fptr, _flen); \
} while(0)
#else
#define TC_INVALIDATE_VALGRIND_POOL(_pool_tc) do { } while (0)
#endif

#define TC_INVALIDATE_POOL(_pool_tc) do { \
 TC_INVALIDATE_FILL_POOL(_pool_tc); \
 TC_INVALIDATE_VALGRIND_POOL(_pool_tc); \
} while (0)

static unsigned int *talloc_pool_objectcount(struct talloc_chunk *tc)
{
 return (unsigned int *)((char *)tc + TC_HDR_SIZE);
}

/*
 Allocate from a pool
*/

static struct talloc_chunk *talloc_alloc_pool(struct talloc_chunk *parent,
          size_t size)
{
 struct talloc_chunk *pool_ctx = NULL;
 size_t space_left;
 struct talloc_chunk *result;
 size_t chunk_size;
```

```
 if (parent == NULL) {
  return NULL;
 }

 if (parent->flags & TALLOC_FLAG_POOL) {
  pool_ctx = parent;
 }
 else if (parent->flags & TALLOC_FLAG_POOLMEM) {
  pool_ctx = (struct talloc_chunk *)parent->pool;
 }

 if (pool_ctx == NULL) {
  return NULL;
 }

 space_left = TC_POOL_SPACE_LEFT(pool_ctx);

 /*
  * Align size to 16 bytes
  */
 chunk_size = TC_ALIGN16(size);

 if (space_left < chunk_size) {
  return NULL;
 }

 result = (struct talloc_chunk *)pool_ctx->pool;

#if defined(DEVELOPER) && defined(VALGRIND_MAKE_MEM_UNDEFINED)
 VALGRIND_MAKE_MEM_UNDEFINED(result, size);
#endif

 pool_ctx->pool = (void *)((char *)result + chunk_size);

 result->flags = TALLOC_MAGIC | TALLOC_FLAG_POOLMEM;
 result->pool = pool_ctx;

 *talloc_pool_objectcount(pool_ctx) += 1;

 return result;
}

/*
  Allocate a bit of memory as a child of an existing pointer
*/
static inline void *__talloc(const void *context, size_t size)
{
```

```
struct talloc_chunk *tc = NULL;

if (unlikely(context == NULL)) {
 context = null_context;
}

if (unlikely(size >= MAX_TALLOC_SIZE)) {
 return NULL;
}

if (context != NULL) {
 tc = talloc_alloc_pool(talloc_chunk_from_ptr(context),
        TC_HDR_SIZE+size);
}

if (tc == NULL) {
 tc = (struct talloc_chunk *)malloc(TC_HDR_SIZE+size);
 if (unlikely(tc == NULL)) return NULL;
 tc->flags = TALLOC_MAGIC;
 tc->pool  = NULL;
}

tc->size = size;
tc->destructor = NULL;
tc->child = NULL;
tc->name = NULL;
tc->refs = NULL;

if (likely(context)) {
 struct talloc_chunk *parent = talloc_chunk_from_ptr(context);

 if (parent->child) {
  parent->child->parent = NULL;
  tc->next = parent->child;
  tc->next->prev = tc;
 } else {
  tc->next = NULL;
 }
 tc->parent = parent;
 tc->prev = NULL;
 parent->child = tc;
} else {
 tc->next = tc->prev = tc->parent = NULL;
}

return TC_PTR_FROM_CHUNK(tc);
}
```

```
/*
* Create a talloc pool
*/

_PUBLIC_ void *talloc_pool(const void *context, size_t size)
{
 void *result = __talloc(context, size + TALLOC_POOL_HDR_SIZE);
 struct talloc_chunk *tc;

 if (unlikely(result == NULL)) {
  return NULL;
 }

 tc = talloc_chunk_from_ptr(result);

 tc->flags |= TALLOC_FLAG_POOL;
 tc->pool = TC_POOL_FIRST_CHUNK(tc);

 *talloc_pool_objectcount(tc) = 1;

 TC_INVALIDATE_POOL(tc);

 return result;
}

/*
 setup a destructor to be called on free of a pointer
 the destructor should return 0 on success, or -1 on failure.
 if the destructor fails then the free is failed, and the memory can
 be continued to be used
*/
_PUBLIC_ void _talloc_set_destructor(const void *ptr, int (*destructor)(void *))
{
 struct talloc_chunk *tc = talloc_chunk_from_ptr(ptr);
 tc->destructor = destructor;
}

/*
 increase the reference count on a piece of memory.
*/
_PUBLIC_ int talloc_increase_ref_count(const void *ptr)
{
 if (unlikely(!talloc_reference(null_context, ptr))) {
  return -1;
 }
 return 0;
}
```

```
/*
 helper for talloc_reference()

 this is referenced by a function pointer and should not be inline
*/
static int talloc_reference_destructor(struct talloc_reference_handle *handle)
{
 struct talloc_chunk *ptr_tc = talloc_chunk_from_ptr(handle->ptr);
 _TLIST_REMOVE(ptr_tc->refs, handle);
 return 0;
}

/*
  more efficient way to add a name to a pointer - the name must point to a
  true string constant
*/
static inline void _talloc_set_name_const(const void *ptr, const char *name)
{
 struct talloc_chunk *tc = talloc_chunk_from_ptr(ptr);
 tc->name = name;
}

/*
 internal talloc_named_const()
*/
static inline void *_talloc_named_const(const void *context, size_t size, const char *name)
{
 void *ptr;

 ptr = __talloc(context, size);
 if (unlikely(ptr == NULL)) {
  return NULL;
 }

 _talloc_set_name_const(ptr, name);

 return ptr;
}

/*
 make a secondary reference to a pointer, hanging off the given context.
 the pointer remains valid until both the original caller and this given
 context are freed.

 the major use for this is when two different structures need to reference the
 same underlying data, and you want to be able to free the two instances separately,
 and in either order
*/
```

```
_PUBLIC_ void *_talloc_reference_loc(const void *context, const void *ptr, const char *location)
{
 struct talloc_chunk *tc;
 struct talloc_reference_handle *handle;
 if (unlikely(ptr == NULL)) return NULL;

 tc = talloc_chunk_from_ptr(ptr);
 handle = (struct talloc_reference_handle *)_talloc_named_const(context,
        sizeof(struct talloc_reference_handle),
        TALLOC_MAGIC_REFERENCE);
 if (unlikely(handle == NULL)) return NULL;

 /* note that we hang the destructor off the handle, not the
    main context as that allows the caller to still setup their
    own destructor on the context if they want to */
 talloc_set_destructor(handle, talloc_reference_destructor);
 handle->ptr = discard_const_p(void, ptr);
 handle->location = location;
 _TLIST_ADD(tc->refs, handle);
 return handle->ptr;
}

static void *_talloc_steal_internal(const void *new_ctx, const void *ptr);

static inline void _talloc_free_poolmem(struct talloc_chunk *tc,
     const char *location)
{
 struct talloc_chunk *pool;
 void *next_tc;
 unsigned int *pool_object_count;

 pool = (struct talloc_chunk *)tc->pool;
 next_tc = TC_POOLMEM_NEXT_CHUNK(tc);

 tc->flags |= TALLOC_FLAG_FREE;

 /* we mark the freed memory with where we called the free
  * from. This means on a double free error we can report where
  * the first free came from
  */
 tc->name = location;

 TC_INVALIDATE_FULL_CHUNK(tc);

 pool_object_count = talloc_pool_objectcount(pool);

 if (unlikely(*pool_object_count == 0)) {
  talloc_abort("Pool object count zero!");
```

```
 return;
 }

 *pool_object_count -= 1;

 if (unlikely(*pool_object_count == 1 && !(pool->flags & TALLOC_FLAG_FREE))) {
  /*
   * if there is just one object left in the pool
   * and pool->flags does not have TALLOC_FLAG_FREE,
   * it means this is the pool itself and
   * the rest is available for new objects
   * again.
   */
  pool->pool = TC_POOL_FIRST_CHUNK(pool);
  TC_INVALIDATE_POOL(pool);
 } else if (unlikely(*pool_object_count == 0)) {
  /*
   * we mark the freed memory with where we called the free
   * from. This means on a double free error we can report where
   * the first free came from
   */
  pool->name = location;

  TC_INVALIDATE_FULL_CHUNK(pool);
  free(pool);
 } else if (pool->pool == next_tc) {
  /*
   * if pool->pool still points to end of
   * 'tc' (which is stored in the 'next_tc' variable),
   * we can reclaim the memory of 'tc'.
   */
  pool->pool = tc;
 }
}

static inline void _talloc_free_children_internal(struct talloc_chunk *tc,
        void *ptr,
        const char *location);

/*
  internal talloc_free call
*/
static inline int _talloc_free_internal(void *ptr, const char *location)
{
 struct talloc_chunk *tc;

 if (unlikely(ptr == NULL)) {
  return -1;
```

```
}

/* possibly initialised the talloc fill value */
if (unlikely(!talloc_fill.initialised)) {
 const char *fill = getenv(TALLOC_FILL_ENV);
 if (fill != NULL) {
  talloc_fill.enabled = true;
  talloc_fill.fill_value = strtoul(fill, NULL, 0);
 }
 talloc_fill.initialised = true;
}

tc = talloc_chunk_from_ptr(ptr);

if (unlikely(tc->refs)) {
 int is_child;
 /* check if this is a reference from a child or
  * grandchild back to it's parent or grandparent
  *
  * in that case we need to remove the reference and
  * call another instance of talloc_free() on the current
  * pointer.
  */
 is_child = talloc_is_parent(tc->refs, ptr);
 _talloc_free_internal(tc->refs, location);
 if (is_child) {
  return _talloc_free_internal(ptr, location);
 }
 return -1;
}

if (unlikely(tc->flags & TALLOC_FLAG_LOOP)) {
 /* we have a free loop - stop looping */
 return 0;
}

if (unlikely(tc->destructor)) {
 talloc_destructor_t d = tc->destructor;
 if (d == (talloc_destructor_t)-1) {
  return -1;
 }
 tc->destructor = (talloc_destructor_t)-1;
 if (d(ptr) == -1) {
  tc->destructor = d;
  return -1;
 }
 tc->destructor = NULL;
}
```

```
if (tc->parent) {
 _TLIST_REMOVE(tc->parent->child, tc);
 if (tc->parent->child) {
  tc->parent->child->parent = tc->parent;
 }
} else {
 if (tc->prev) tc->prev->next = tc->next;
 if (tc->next) tc->next->prev = tc->prev;
 tc->prev = tc->next = NULL;
}

tc->flags |= TALLOC_FLAG_LOOP;

_talloc_free_children_internal(tc, ptr, location);

tc->flags |= TALLOC_FLAG_FREE;

/* we mark the freed memory with where we called the free
 * from. This means on a double free error we can report where
 * the first free came from
 */
tc->name = location;

if (tc->flags & TALLOC_FLAG_POOL) {
 unsigned int *pool_object_count;

 pool_object_count = talloc_pool_objectcount(tc);

 if (unlikely(*pool_object_count == 0)) {
  talloc_abort("Pool object count zero!");
  return 0;
 }

 *pool_object_count -= 1;

 if (unlikely(*pool_object_count == 0)) {
  TC_INVALIDATE_FULL_CHUNK(tc);
  free(tc);
 }
} else if (tc->flags & TALLOC_FLAG_POOLMEM) {
 _talloc_free_poolmem(tc, location);
} else {
 TC_INVALIDATE_FULL_CHUNK(tc);
 free(tc);
}
return 0;
}
```

```
/*
  move a lump of memory from one talloc context to another return the
  ptr on success, or NULL if it could not be transferred.
  passing NULL as ptr will always return NULL with no side effects.
*/
static void *_talloc_steal_internal(const void *new_ctx, const void *ptr)
{
 struct talloc_chunk *tc, *new_tc;

 if (unlikely(!ptr)) {
  return NULL;
 }

 if (unlikely(new_ctx == NULL)) {
  new_ctx = null_context;
 }

 tc = talloc_chunk_from_ptr(ptr);

 if (unlikely(new_ctx == NULL)) {
  if (tc->parent) {
   _TLIST_REMOVE(tc->parent->child, tc);
   if (tc->parent->child) {
    tc->parent->child->parent = tc->parent;
   }
  } else {
   if (tc->prev) tc->prev->next = tc->next;
   if (tc->next) tc->next->prev = tc->prev;
  }

  tc->parent = tc->next = tc->prev = NULL;
  return discard_const_p(void, ptr);
 }

 new_tc = talloc_chunk_from_ptr(new_ctx);

 if (unlikely(tc == new_tc || tc->parent == new_tc)) {
  return discard_const_p(void, ptr);
 }

 if (tc->parent) {
  _TLIST_REMOVE(tc->parent->child, tc);
  if (tc->parent->child) {
   tc->parent->child->parent = tc->parent;
  }
 } else {
  if (tc->prev) tc->prev->next = tc->next;
```

```
 if (tc->next) tc->next->prev = tc->prev;
 tc->prev = tc->next = NULL;
 }

 tc->parent = new_tc;
 if (new_tc->child) new_tc->child->parent = NULL;
 _TLIST_ADD(new_tc->child, tc);

 return discard_const_p(void, ptr);
}

/*
  move a lump of memory from one talloc context to another return the
  ptr on success, or NULL if it could not be transferred.
  passing NULL as ptr will always return NULL with no side effects.
*/
_PUBLIC_ void *_talloc_steal_loc(const void *new_ctx, const void *ptr, const char *location)
{
 struct talloc_chunk *tc;

 if (unlikely(ptr == NULL)) {
  return NULL;
 }

 tc = talloc_chunk_from_ptr(ptr);

 if (unlikely(tc->refs != NULL) && talloc_parent(ptr) != new_ctx) {
  struct talloc_reference_handle *h;

  talloc_log("WARNING: talloc_steal with references at %s\n",
      location);

  for (h=tc->refs; h; h=h->next) {
   talloc_log("\treference at %s\n",
       h->location);
  }
 }

#if 0
 /* this test is probably too expensive to have on in the
    normal build, but it useful for debugging */
 if (talloc_is_parent(new_ctx, ptr)) {
  talloc_log("WARNING: stealing into talloc child at %s\n", location);
 }
#endif

 return _talloc_steal_internal(new_ctx, ptr);
}
```

```
/*
  this is like a talloc_steal(), but you must supply the old
  parent. This resolves the ambiguity in a talloc_steal() which is
  called on a context that has more than one parent (via references)

  The old parent can be either a reference or a parent
*/
_PUBLIC_ void *talloc_reparent(const void *old_parent, const void *new_parent, const void *ptr)
{
 struct talloc_chunk *tc;
 struct talloc_reference_handle *h;

 if (unlikely(ptr == NULL)) {
  return NULL;
 }

 if (old_parent == talloc_parent(ptr)) {
  return _talloc_steal_internal(new_parent, ptr);
 }

 tc = talloc_chunk_from_ptr(ptr);
 for (h=tc->refs;h;h=h->next) {
  if (talloc_parent(h) == old_parent) {
   if (_talloc_steal_internal(new_parent, h) != h) {
    return NULL;
   }
   return discard_const_p(void, ptr);
  }
 }

 /* it wasn't a parent */
 return NULL;
}

/*
 remove a secondary reference to a pointer. This undo's what
 talloc_reference() has done. The context and pointer arguments
 must match those given to a talloc_reference()
*/
static inline int talloc_unreference(const void *context, const void *ptr)
{
 struct talloc_chunk *tc = talloc_chunk_from_ptr(ptr);
 struct talloc_reference_handle *h;

 if (unlikely(context == NULL)) {
  context = null_context;
 }
```

```
 for (h=tc->refs;h;h=h->next) {
  struct talloc_chunk *p = talloc_parent_chunk(h);
  if (p == NULL) {
   if (context == NULL) break;
  } else if (TC_PTR_FROM_CHUNK(p) == context) {
   break;
  }
 }
 if (h == NULL) {
  return -1;
 }

 return _talloc_free_internal(h, __location__);
}

/*
 remove a specific parent context from a pointer. This is a more
 controlled varient of talloc_free()
*/
_PUBLIC_ int talloc_unlink(const void *context, void *ptr)
{
 struct talloc_chunk *tc_p, *new_p;
 void *new_parent;

 if (ptr == NULL) {
  return -1;
 }

 if (context == NULL) {
  context = null_context;
 }

 if (talloc_unreference(context, ptr) == 0) {
  return 0;
 }

 if (context == NULL) {
  if (talloc_parent_chunk(ptr) != NULL) {
   return -1;
  }
 } else {
  if (talloc_chunk_from_ptr(context) != talloc_parent_chunk(ptr)) {
   return -1;
  }
 }

 tc_p = talloc_chunk_from_ptr(ptr);
```

```
 if (tc_p->refs == NULL) {
  return _talloc_free_internal(ptr, __location__);
 }

 new_p = talloc_parent_chunk(tc_p->refs);
 if (new_p) {
  new_parent = TC_PTR_FROM_CHUNK(new_p);
 } else {
  new_parent = NULL;
 }

 if (talloc_unreference(new_parent, ptr) != 0) {
  return -1;
 }

 _talloc_steal_internal(new_parent, ptr);

 return 0;
}

/*
 add a name to an existing pointer - va_list version
*/
static inline const char *talloc_set_name_v(const void *ptr, const char *fmt, va_list ap)
PRINTF_ATTRIBUTE(2,0);

static inline const char *talloc_set_name_v(const void *ptr, const char *fmt, va_list ap)
{
 struct talloc_chunk *tc = talloc_chunk_from_ptr(ptr);
 tc->name = talloc_vasprintf(ptr, fmt, ap);
 if (likely(tc->name)) {
  _talloc_set_name_const(tc->name, ".name");
 }
 return tc->name;
}

/*
 add a name to an existing pointer
*/
_PUBLIC_ const char *talloc_set_name(const void *ptr, const char *fmt, ...)
{
 const char *name;
 va_list ap;
 va_start(ap, fmt);
 name = talloc_set_name_v(ptr, fmt, ap);
 va_end(ap);
 return name;
```

```
}


/*
 create a named talloc pointer. Any talloc pointer can be named, and
 talloc_named() operates just like talloc() except that it allows you
 to name the pointer.
*/
_PUBLIC_ void *talloc_named(const void *context, size_t size, const char *fmt, ...)
{
 va_list ap;
 void *ptr;
 const char *name;

 ptr = __talloc(context, size);
 if (unlikely(ptr == NULL)) return NULL;

 va_start(ap, fmt);
 name = talloc_set_name_v(ptr, fmt, ap);
 va_end(ap);

 if (unlikely(name == NULL)) {
  _talloc_free_internal(ptr, __location__);
  return NULL;
 }

 return ptr;
}

/*
 return the name of a talloc ptr, or "UNNAMED"
*/
_PUBLIC_ const char *talloc_get_name(const void *ptr)
{
 struct talloc_chunk *tc = talloc_chunk_from_ptr(ptr);
 if (unlikely(tc->name == TALLOC_MAGIC_REFERENCE)) {
  return ".reference";
 }
 if (likely(tc->name)) {
  return tc->name;
 }
 return "UNNAMED";
}


/*
 check if a pointer has the given name. If it does, return the pointer,
 otherwise return NULL
```

```
*/
_PUBLIC_ void *talloc_check_name(const void *ptr, const char *name)
{
 const char *pname;
 if (unlikely(ptr == NULL)) return NULL;
 pname = talloc_get_name(ptr);
 if (likely(pname == name || strcmp(pname, name) == 0)) {
  return discard_const_p(void, ptr);
 }
 return NULL;
}

static void talloc_abort_type_missmatch(const char *location,
     const char *name,
     const char *expected)
{
 const char *reason;

 reason = talloc_asprintf(NULL,
     "%s: Type mismatch: name[%s] expected[%s]",
     location,
     name?name:"NULL",
     expected);
 if (!reason) {
  reason = "Type mismatch";
 }

 talloc_abort(reason);
}

_PUBLIC_ void *_talloc_get_type_abort(const void *ptr, const char *name, const char *location)
{
 const char *pname;

 if (unlikely(ptr == NULL)) {
  talloc_abort_type_missmatch(location, NULL, name);
  return NULL;
 }

 pname = talloc_get_name(ptr);
 if (likely(pname == name || strcmp(pname, name) == 0)) {
  return discard_const_p(void, ptr);
 }

 talloc_abort_type_missmatch(location, pname, name);
 return NULL;
}
```

```
/*
 this is for compatibility with older versions of talloc
*/
_PUBLIC_ void *talloc_init(const char *fmt, ...)
{
 va_list ap;
 void *ptr;
 const char *name;

 ptr = __talloc(NULL, 0);
 if (unlikely(ptr == NULL)) return NULL;

 va_start(ap, fmt);
 name = talloc_set_name_v(ptr, fmt, ap);
 va_end(ap);

 if (unlikely(name == NULL)) {
  _talloc_free_internal(ptr, __location__);
  return NULL;
 }

 return ptr;
}

static inline void _talloc_free_children_internal(struct talloc_chunk *tc,
        void *ptr,
        const char *location)
{
 while (tc->child) {
  /* we need to work out who will own an abandoned child
     if it cannot be freed. In priority order, the first
     choice is owner of any remaining reference to this
     pointer, the second choice is our parent, and the
     final choice is the null context. */
  void *child = TC_PTR_FROM_CHUNK(tc->child);
  const void *new_parent = null_context;
  if (unlikely(tc->child->refs)) {
   struct talloc_chunk *p = talloc_parent_chunk(tc->child->refs);
   if (p) new_parent = TC_PTR_FROM_CHUNK(p);
  }
  if (unlikely(_talloc_free_internal(child, location) == -1)) {
   if (new_parent == null_context) {
    struct talloc_chunk *p = talloc_parent_chunk(ptr);
    if (p) new_parent = TC_PTR_FROM_CHUNK(p);
   }
   _talloc_steal_internal(new_parent, child);
  }
 }
```

```
}

/*
 this is a replacement for the Samba3 talloc_destroy_pool functionality. It
 should probably not be used in new code. It's in here to keep the talloc
 code consistent across Samba 3 and 4.
*/
_PUBLIC_ void talloc_free_children(void *ptr)
{
 struct talloc_chunk *tc_name = NULL;
 struct talloc_chunk *tc;

 if (unlikely(ptr == NULL)) {
  return;
 }

 tc = talloc_chunk_from_ptr(ptr);

 /* we do not want to free the context name if it is a child .. */
 if (likely(tc->child)) {
  for (tc_name = tc->child; tc_name; tc_name = tc_name->next) {
   if (tc->name == TC_PTR_FROM_CHUNK(tc_name)) break;
  }
  if (tc_name) {
   _TLIST_REMOVE(tc->child, tc_name);
   if (tc->child) {
    tc->child->parent = tc;
   }
  }
 }

 _talloc_free_children_internal(tc, ptr, __location__);

 /* .. so we put it back after all other children have been freed */
 if (tc_name) {
  if (tc->child) {
   tc->child->parent = NULL;
  }
  tc_name->parent = tc;
  _TLIST_ADD(tc->child, tc_name);
 }
}

/*
  Allocate a bit of memory as a child of an existing pointer
*/
_PUBLIC_ void *_talloc(const void *context, size_t size)
{
```

```
 return __talloc(context, size);
}

/*
 externally callable talloc_set_name_const()
*/
_PUBLIC_ void talloc_set_name_const(const void *ptr, const char *name)
{
 _talloc_set_name_const(ptr, name);
}

/*
 create a named talloc pointer. Any talloc pointer can be named, and
 talloc_named() operates just like talloc() except that it allows you
 to name the pointer.
*/
_PUBLIC_ void *talloc_named_const(const void *context, size_t size, const char *name)
{
 return _talloc_named_const(context, size, name);
}

/*
  free a talloc pointer. This also frees all child pointers of this
  pointer recursively

  return 0 if the memory is actually freed, otherwise -1. The memory
  will not be freed if the ref_count is > 1 or the destructor (if
  any) returns non-zero
*/
_PUBLIC_ int _talloc_free(void *ptr, const char *location)
{
 struct talloc_chunk *tc;

 if (unlikely(ptr == NULL)) {
  return -1;
 }

 tc = talloc_chunk_from_ptr(ptr);

 if (unlikely(tc->refs != NULL)) {
  struct talloc_reference_handle *h;

  if (talloc_parent(ptr) == null_context && tc->refs->next == NULL) {
   /* in this case we do know which parent should
      get this pointer, as there is really only
      one parent */
   return talloc_unlink(null_context, ptr);
  }
```

```
 talloc_log("ERROR: talloc_free with references at %s\n",
     location);

 for (h=tc->refs; h; h=h->next) {
  talloc_log("\treference at %s\n",
      h->location);
 }
 return -1;
}

return _talloc_free_internal(ptr, location);
}



/*
 A talloc version of realloc. The context argument is only used if
 ptr is NULL
*/
_PUBLIC_ void *_talloc_realloc(const void *context, void *ptr, size_t size, const char *name)
{
 struct talloc_chunk *tc;
 void *new_ptr;
 bool malloced = false;
 struct talloc_chunk *pool_tc = NULL;

 /* size zero is equivalent to free() */
 if (unlikely(size == 0)) {
  talloc_unlink(context, ptr);
  return NULL;
 }

 if (unlikely(size >= MAX_TALLOC_SIZE)) {
  return NULL;
 }

 /* realloc(NULL) is equivalent to malloc() */
 if (ptr == NULL) {
  return _talloc_named_const(context, size, name);
 }

 tc = talloc_chunk_from_ptr(ptr);

 /* don't allow realloc on referenced pointers */
 if (unlikely(tc->refs)) {
  return NULL;
 }
```

```
 /* don't let anybody try to realloc a talloc_pool */
 if (unlikely(tc->flags & TALLOC_FLAG_POOL)) {
  return NULL;
 }

 /* don't let anybody try to realloc a talloc_pool */
 if (unlikely(tc->flags & TALLOC_FLAG_POOLMEM)) {
  pool_tc = (struct talloc_chunk *)tc->pool;
 }

#if (ALWAYS_REALLOC == 0)
 /* don't shrink if we have less than 1k to gain */
 if (size < tc->size) {
  if (pool_tc) {
   void *next_tc = TC_POOLMEM_NEXT_CHUNK(tc);
   TC_INVALIDATE_SHRINK_CHUNK(tc, size);
   tc->size = size;
   if (next_tc == pool_tc->pool) {
    pool_tc->pool = TC_POOLMEM_NEXT_CHUNK(tc);
   }
   return ptr;
  } else if ((tc->size - size) < 1024) {
   /*
    * if we call TC_INVALIDATE_SHRINK_CHUNK() here
    * we would need to call TC_UNDEFINE_GROW_CHUNK()
    * after each realloc call, which slows down
    * testing a lot :-(.
    *
    * That is why we only mark memory as undefined here.
    */
   TC_UNDEFINE_SHRINK_CHUNK(tc, size);

   /* do not shrink if we have less than 1k to gain */
   tc->size = size;
   return ptr;
  }
 } else if (tc->size == size) {
  /*
   * do not change the pointer if it is exactly
   * the same size.
   */
  return ptr;
 }
#endif

 /* by resetting magic we catch users of the old memory */
 tc->flags |= TALLOC_FLAG_FREE;
```

```
#if ALWAYS_REALLOC
 if (pool_tc) {
  new_ptr = talloc_alloc_pool(tc, size + TC_HDR_SIZE);
  *talloc_pool_objectcount(pool_tc) -= 1;

  if (new_ptr == NULL) {
   new_ptr = malloc(TC_HDR_SIZE+size);
   malloced = true;
  }

  if (new_ptr) {
   memcpy(new_ptr, tc, MIN(tc->size,size) + TC_HDR_SIZE);
   TC_INVALIDATE_FULL_CHUNK(tc);
  }
 } else {
  new_ptr = malloc(size + TC_HDR_SIZE);
  if (new_ptr) {
   memcpy(new_ptr, tc, MIN(tc->size, size) + TC_HDR_SIZE);
   free(tc);
  }
 }
#else
 if (pool_tc) {
  void *next_tc = TC_POOLMEM_NEXT_CHUNK(tc);
  size_t old_chunk_size = TC_POOLMEM_CHUNK_SIZE(tc);
  size_t new_chunk_size = TC_ALIGN16(TC_HDR_SIZE + size);
  size_t space_needed;
  size_t space_left;
  unsigned int chunk_count = *talloc_pool_objectcount(pool_tc);

  if (!(pool_tc->flags & TALLOC_FLAG_FREE)) {
   chunk_count -= 1;
  }

  if (chunk_count == 1) {
   /*
    * optimize for the case where 'tc' is the only
    * chunk in the pool.
    */
   space_needed = new_chunk_size;
   space_left = pool_tc->size - TALLOC_POOL_HDR_SIZE;

   if (space_left >= space_needed) {
    size_t old_used = TC_HDR_SIZE + tc->size;
    size_t new_used = TC_HDR_SIZE + size;
    pool_tc->pool = TC_POOL_FIRST_CHUNK(pool_tc);
#if defined(DEVELOPER) && defined(VALGRIND_MAKE_MEM_UNDEFINED)
```

```
    /*
     * we need to prepare the memmove into
     * the unaccessable area.
     */
    {
     size_t diff = PTR_DIFF(tc, pool_tc->pool);
     size_t flen = MIN(diff, old_used);
     char *fptr = (char *)pool_tc->pool;
     VALGRIND_MAKE_MEM_UNDEFINED(fptr, flen);
    }
#endif
    memmove(pool_tc->pool, tc, old_used);
    new_ptr = pool_tc->pool;

    tc = (struct talloc_chunk *)new_ptr;
    TC_UNDEFINE_GROW_CHUNK(tc, size);

    /*
     * first we do not align the pool pointer
     * because we want to invalidate the padding
     * too.
     */
    pool_tc->pool = new_used + (char *)new_ptr;
    TC_INVALIDATE_POOL(pool_tc);

    /* now the aligned pointer */
    pool_tc->pool = new_chunk_size + (char *)new_ptr;
    goto got_new_ptr;
   }

   next_tc = NULL;
  }

  if (new_chunk_size == old_chunk_size) {
   TC_UNDEFINE_GROW_CHUNK(tc, size);
   tc->flags &= ~TALLOC_FLAG_FREE;
   tc->size = size;
   return ptr;
  }

  if (next_tc == pool_tc->pool) {
   /*
    * optimize for the case where 'tc' is the last
    * chunk in the pool.
    */
   space_needed = new_chunk_size - old_chunk_size;
   space_left = TC_POOL_SPACE_LEFT(pool_tc);
```

```
  if (space_left >= space_needed) {
   TC_UNDEFINE_GROW_CHUNK(tc, size);
   tc->flags &= ~TALLOC_FLAG_FREE;
   tc->size = size;
   pool_tc->pool = TC_POOLMEM_NEXT_CHUNK(tc);
   return ptr;
  }
 }

 new_ptr = talloc_alloc_pool(tc, size + TC_HDR_SIZE);

 if (new_ptr == NULL) {
  new_ptr = malloc(TC_HDR_SIZE+size);
  malloced = true;
 }

 if (new_ptr) {
  memcpy(new_ptr, tc, MIN(tc->size,size) + TC_HDR_SIZE);

  _talloc_free_poolmem(tc, __location__ "_talloc_realloc");
 }
}
else {
 new_ptr = realloc(tc, size + TC_HDR_SIZE);
}
got_new_ptr:
#endif
 if (unlikely(!new_ptr)) {
  tc->flags &= ~TALLOC_FLAG_FREE;
  return NULL;
 }

 tc = (struct talloc_chunk *)new_ptr;
 tc->flags &= ~TALLOC_FLAG_FREE;
 if (malloced) {
  tc->flags &= ~TALLOC_FLAG_POOLMEM;
 }
 if (tc->parent) {
  tc->parent->child = tc;
 }
 if (tc->child) {
  tc->child->parent = tc;
 }

 if (tc->prev) {
  tc->prev->next = tc;
 }
 if (tc->next) {
```

```
 tc->next->prev = tc;
 }

 tc->size = size;
 _talloc_set_name_const(TC_PTR_FROM_CHUNK(tc), name);

 return TC_PTR_FROM_CHUNK(tc);
}

/*
 a wrapper around talloc_steal() for situations where you are moving a pointer
 between two structures, and want the old pointer to be set to NULL
*/
_PUBLIC_ void *_talloc_move(const void *new_ctx, const void *_pptr)
{
 const void **pptr = discard_const_p(const void *,_pptr);
 void *ret = talloc_steal(new_ctx, discard_const_p(void, *pptr));
 (*pptr) = NULL;
 return ret;
}

/*
 return the total size of a talloc pool (subtree)
*/
_PUBLIC_ size_t talloc_total_size(const void *ptr)
{
 size_t total = 0;
 struct talloc_chunk *c, *tc;

 if (ptr == NULL) {
  ptr = null_context;
 }
 if (ptr == NULL) {
  return 0;
 }

 tc = talloc_chunk_from_ptr(ptr);

 if (tc->flags & TALLOC_FLAG_LOOP) {
  return 0;
 }

 tc->flags |= TALLOC_FLAG_LOOP;

 if (likely(tc->name != TALLOC_MAGIC_REFERENCE)) {
  total = tc->size;
 }
 for (c=tc->child;c;c=c->next) {
```

```
 total += talloc_total_size(TC_PTR_FROM_CHUNK(c));
 }

 tc->flags &= ~TALLOC_FLAG_LOOP;

 return total;
}

/*
 return the total number of blocks in a talloc pool (subtree)
*/
_PUBLIC_ size_t talloc_total_blocks(const void *ptr)
{
 size_t total = 0;
 struct talloc_chunk *c, *tc;

 if (ptr == NULL) {
  ptr = null_context;
 }
 if (ptr == NULL) {
  return 0;
 }

 tc = talloc_chunk_from_ptr(ptr);

 if (tc->flags & TALLOC_FLAG_LOOP) {
  return 0;
 }

 tc->flags |= TALLOC_FLAG_LOOP;

 total++;
 for (c=tc->child;c;c=c->next) {
  total += talloc_total_blocks(TC_PTR_FROM_CHUNK(c));
 }

 tc->flags &= ~TALLOC_FLAG_LOOP;

 return total;
}

/*
 return the number of external references to a pointer
*/
_PUBLIC_ size_t talloc_reference_count(const void *ptr)
{
 struct talloc_chunk *tc = talloc_chunk_from_ptr(ptr);
 struct talloc_reference_handle *h;
```

```
 size_t ret = 0;

 for (h=tc->refs;h;h=h->next) {
  ret++;
 }
 return ret;
}

/*
 report on memory usage by all children of a pointer, giving a full tree view
*/
_PUBLIC_ void talloc_report_depth_cb(const void *ptr, int depth, int max_depth,
       void (*callback)(const void *ptr,
            int depth, int max_depth,
          int is_ref,
          void *private_data),
       void *private_data)
{
 struct talloc_chunk *c, *tc;

 if (ptr == NULL) {
  ptr = null_context;
 }
 if (ptr == NULL) return;

 tc = talloc_chunk_from_ptr(ptr);

 if (tc->flags & TALLOC_FLAG_LOOP) {
  return;
 }

 callback(ptr, depth, max_depth, 0, private_data);

 if (max_depth >= 0 && depth >= max_depth) {
  return;
 }

 tc->flags |= TALLOC_FLAG_LOOP;
 for (c=tc->child;c;c=c->next) {
  if (c->name == TALLOC_MAGIC_REFERENCE) {
   struct talloc_reference_handle *h = (struct talloc_reference_handle *)TC_PTR_FROM_CHUNK(c);
   callback(h->ptr, depth + 1, max_depth, 1, private_data);
  } else {
   talloc_report_depth_cb(TC_PTR_FROM_CHUNK(c), depth + 1, max_depth, callback, private_data);
  }
 }
 tc->flags &= ~TALLOC_FLAG_LOOP;
}
```

```
static void talloc_report_depth_FILE_helper(const void *ptr, int depth, int max_depth, int is_ref, void *_f)
{
 const char *name = talloc_get_name(ptr);
 FILE *f = (FILE *)_f;

 if (is_ref) {
  fprintf(f, "%*sreference to: %s\n", depth*4, "", name);
  return;
 }

 if (depth == 0) {
  fprintf(f,"%stalloc report on '%s' (total %6lu bytes in %3lu blocks)\n",
   (max_depth < 0 ? "full " :""), name,
   (unsigned long)talloc_total_size(ptr),
   (unsigned long)talloc_total_blocks(ptr));
  return;
 }

 fprintf(f, "%*s%-30s contains %6lu bytes in %3lu blocks (ref %d) %p\n",
  depth*4, "",
  name,
  (unsigned long)talloc_total_size(ptr),
  (unsigned long)talloc_total_blocks(ptr),
  (int)talloc_reference_count(ptr), ptr);

#if 0
 fprintf(f, "content: ");
 if (talloc_total_size(ptr)) {
  int tot = talloc_total_size(ptr);
  int i;

  for (i = 0; i < tot; i++) {
   if ((((char *)ptr)[i] > 31) && (((char *)ptr)[i] < 126)) {
    fprintf(f, "%c", ((char *)ptr)[i]);
   } else {
    fprintf(f, "~%02x", ((char *)ptr)[i]);
   }
  }
 }
 fprintf(f, "\n");
#endif
}

/*
 report on memory usage by all children of a pointer, giving a full tree view
*/
_PUBLIC_ void talloc_report_depth_file(const void *ptr, int depth, int max_depth, FILE *f)
```

```
{
 if (f) {
  talloc_report_depth_cb(ptr, depth, max_depth, talloc_report_depth_FILE_helper, f);
  fflush(f);
 }
}

/*
 report on memory usage by all children of a pointer, giving a full tree view
*/
_PUBLIC_ void talloc_report_full(const void *ptr, FILE *f)
{
 talloc_report_depth_file(ptr, 0, -1, f);
}

/*
 report on memory usage by all children of a pointer
*/
_PUBLIC_ void talloc_report(const void *ptr, FILE *f)
{
 talloc_report_depth_file(ptr, 0, 1, f);
}

/*
 report on any memory hanging off the null context
*/
static void talloc_report_null(void)
{
 if (talloc_total_size(null_context) != 0) {
  talloc_report(null_context, stderr);
 }
}

/*
 report on any memory hanging off the null context
*/
static void talloc_report_null_full(void)
{
 if (talloc_total_size(null_context) != 0) {
  talloc_report_full(null_context, stderr);
 }
}

/*
 enable tracking of the NULL context
*/
_PUBLIC_ void talloc_enable_null_tracking(void)
{
```

```
 if (null_context == NULL) {
  null_context = _talloc_named_const(NULL, 0, "null_context");
  if (autofree_context != NULL) {
   talloc_reparent(NULL, null_context, autofree_context);
  }
 }
}

/*
 enable tracking of the NULL context, not moving the autofree context
 into the NULL context. This is needed for the talloc testsuite
*/
_PUBLIC_ void talloc_enable_null_tracking_no_autofree(void)
{
 if (null_context == NULL) {
  null_context = _talloc_named_const(NULL, 0, "null_context");
 }
}

/*
 disable tracking of the NULL context
*/
_PUBLIC_ void talloc_disable_null_tracking(void)
{
 if (null_context != NULL) {
  /* we have to move any children onto the real NULL
     context */
  struct talloc_chunk *tc, *tc2;
  tc = talloc_chunk_from_ptr(null_context);
  for (tc2 = tc->child; tc2; tc2=tc2->next) {
   if (tc2->parent == tc) tc2->parent = NULL;
   if (tc2->prev == tc) tc2->prev = NULL;
  }
  for (tc2 = tc->next; tc2; tc2=tc2->next) {
   if (tc2->parent == tc) tc2->parent = NULL;
   if (tc2->prev == tc) tc2->prev = NULL;
  }
  tc->child = NULL;
  tc->next = NULL;
 }
 talloc_free(null_context);
 null_context = NULL;
}

/*
 enable leak reporting on exit
*/
_PUBLIC_ void talloc_enable_leak_report(void)
```

```
{
 talloc_enable_null_tracking();
 atexit(talloc_report_null);
}

/*
 enable full leak reporting on exit
*/
_PUBLIC_ void talloc_enable_leak_report_full(void)
{
 talloc_enable_null_tracking();
 atexit(talloc_report_null_full);
}

/*
  talloc and zero memory.
*/
_PUBLIC_ void *_talloc_zero(const void *ctx, size_t size, const char *name)
{
 void *p = _talloc_named_const(ctx, size, name);

 if (p) {
  memset(p, '\0', size);
 }

 return p;
}

/*
 memdup with a talloc.
*/
_PUBLIC_ void *_talloc_memdup(const void *t, const void *p, size_t size, const char *name)
{
 void *newp = _talloc_named_const(t, size, name);

 if (likely(newp)) {
  memcpy(newp, p, size);
 }

 return newp;
}

static inline char *__talloc_strlendup(const void *t, const char *p, size_t len)
{
 char *ret;

 ret = (char *)__talloc(t, len + 1);
 if (unlikely(!ret)) return NULL;
```

```
 memcpy(ret, p, len);
 ret[len] = 0;

 _talloc_set_name_const(ret, ret);
 return ret;
}

/*
 strdup with a talloc
*/
_PUBLIC_ char *talloc_strdup(const void *t, const char *p)
{
 if (unlikely(!p)) return NULL;
 return __talloc_strlendup(t, p, strlen(p));
}

/*
 strndup with a talloc
*/
_PUBLIC_ char *talloc_strndup(const void *t, const char *p, size_t n)
{
 if (unlikely(!p)) return NULL;
 return __talloc_strlendup(t, p, strnlen(p, n));
}

static inline char *__talloc_strlendup_append(char *s, size_t slen,
        const char *a, size_t alen)
{
 char *ret;

 ret = talloc_realloc(NULL, s, char, slen + alen + 1);
 if (unlikely(!ret)) return NULL;

 /* append the string and the trailing \0 */
 memcpy(&ret[slen], a, alen);
 ret[slen+alen] = 0;

 _talloc_set_name_const(ret, ret);
 return ret;
}

/*
* Appends at the end of the string.
*/
_PUBLIC_ char *talloc_strdup_append(char *s, const char *a)
{
 if (unlikely(!s)) {
```

```
 return talloc_strdup(NULL, a);
 }

 if (unlikely(!a)) {
  return s;
 }

 return __talloc_strlendup_append(s, strlen(s), a, strlen(a));
}

/*
* Appends at the end of the talloc'ed buffer,
* not the end of the string.
*/
_PUBLIC_ char *talloc_strdup_append_buffer(char *s, const char *a)
{
 size_t slen;

 if (unlikely(!s)) {
  return talloc_strdup(NULL, a);
 }

 if (unlikely(!a)) {
  return s;
 }

 slen = talloc_get_size(s);
 if (likely(slen > 0)) {
  slen--;
 }

 return __talloc_strlendup_append(s, slen, a, strlen(a));
}

/*
* Appends at the end of the string.
*/
_PUBLIC_ char *talloc_strndup_append(char *s, const char *a, size_t n)
{
 if (unlikely(!s)) {
  return talloc_strdup(NULL, a);
 }

 if (unlikely(!a)) {
  return s;
 }

 return __talloc_strlendup_append(s, strlen(s), a, strnlen(a, n));
```

```
}

/*
* Appends at the end of the talloc'ed buffer,
* not the end of the string.
*/
_PUBLIC_ char *talloc_strndup_append_buffer(char *s, const char *a, size_t n)
{
 size_t slen;

 if (unlikely(!s)) {
  return talloc_strdup(NULL, a);
 }

 if (unlikely(!a)) {
  return s;
 }

 slen = talloc_get_size(s);
 if (likely(slen > 0)) {
  slen--;
 }

 return __talloc_strlendup_append(s, slen, a, strnlen(a, n));
}

#ifndef HAVE_VA_COPY
#ifdef HAVE___VA_COPY
#define va_copy(dest, src) __va_copy(dest, src)
#else
#define va_copy(dest, src) (dest) = (src)
#endif
#endif

_PUBLIC_ char *talloc_vasprintf(const void *t, const char *fmt, va_list ap)
{
 int len;
 char *ret;
 va_list ap2;
 char c;

 /* this call looks strange, but it makes it work on older solaris boxes */
 va_copy(ap2, ap);
 len = vsnprintf(&c, 1, fmt, ap2);
 va_end(ap2);
 if (unlikely(len < 0)) {
  return NULL;
 }
```

```
 ret = (char *)__talloc(t, len+1);
 if (unlikely(!ret)) return NULL;

 va_copy(ap2, ap);
 vsnprintf(ret, len+1, fmt, ap2);
 va_end(ap2);

 _talloc_set_name_const(ret, ret);
 return ret;
}


/*
 Perform string formatting, and return a pointer to newly allocated
 memory holding the result, inside a memory pool.
*/
_PUBLIC_ char *talloc_asprintf(const void *t, const char *fmt, ...)
{
 va_list ap;
 char *ret;

 va_start(ap, fmt);
 ret = talloc_vasprintf(t, fmt, ap);
 va_end(ap);
 return ret;
}

static inline char *__talloc_vaslenprintf_append(char *s, size_t slen,
       const char *fmt, va_list ap)
       PRINTF_ATTRIBUTE(3,0);

static inline char *__talloc_vaslenprintf_append(char *s, size_t slen,
       const char *fmt, va_list ap)
{
 ssize_t alen;
 va_list ap2;
 char c;

 va_copy(ap2, ap);
 alen = vsnprintf(&c, 1, fmt, ap2);
 va_end(ap2);

 if (alen <= 0) {
  /* Either the vsnprintf failed or the format resulted in
   * no characters being formatted. In the former case, we
   * ought to return NULL, in the latter we ought to return
   * the original string. Most current callers of this
```

```
  * function expect it to never return NULL.
  */
 return s;
}

s = talloc_realloc(NULL, s, char, slen + alen + 1);
if (!s) return NULL;

va_copy(ap2, ap);
vsnprintf(s + slen, alen + 1, fmt, ap2);
va_end(ap2);

_talloc_set_name_const(s, s);
return s;
}

/**
* Realloc @p s to append the formatted result of @p fmt and @p ap,
* and return @p s, which may have moved.  Good for gradually
* accumulating output into a string buffer. Appends at the end
* of the string.
**/
_PUBLIC_ char *talloc_vasprintf_append(char *s, const char *fmt, va_list ap)
{
 if (unlikely(!s)) {
  return talloc_vasprintf(NULL, fmt, ap);
 }

 return __talloc_vaslenprintf_append(s, strlen(s), fmt, ap);
}

/**
* Realloc @p s to append the formatted result of @p fmt and @p ap,
* and return @p s, which may have moved. Always appends at the
* end of the talloc'ed buffer, not the end of the string.
**/
_PUBLIC_ char *talloc_vasprintf_append_buffer(char *s, const char *fmt, va_list ap)
{
 size_t slen;

 if (unlikely(!s)) {
  return talloc_vasprintf(NULL, fmt, ap);
 }

 slen = talloc_get_size(s);
 if (likely(slen > 0)) {
  slen--;
 }
```

```
 return __talloc_vaslenprintf_append(s, slen, fmt, ap);
}

/*
 Realloc @p s to append the formatted result of @p fmt and return @p
 s, which may have moved.  Good for gradually accumulating output
 into a string buffer.
*/
_PUBLIC_ char *talloc_asprintf_append(char *s, const char *fmt, ...)
{
 va_list ap;

 va_start(ap, fmt);
 s = talloc_vasprintf_append(s, fmt, ap);
 va_end(ap);
 return s;
}

/*
 Realloc @p s to append the formatted result of @p fmt and return @p
 s, which may have moved.  Good for gradually accumulating output
 into a buffer.
*/
_PUBLIC_ char *talloc_asprintf_append_buffer(char *s, const char *fmt, ...)
{
 va_list ap;

 va_start(ap, fmt);
 s = talloc_vasprintf_append_buffer(s, fmt, ap);
 va_end(ap);
 return s;
}

/*
 alloc an array, checking for integer overflow in the array size
*/
_PUBLIC_ void *_talloc_array(const void *ctx, size_t el_size, unsigned count, const char *name)
{
 if (count >= MAX_TALLOC_SIZE/el_size) {
  return NULL;
 }
 return _talloc_named_const(ctx, el_size * count, name);
}

/*
 alloc an zero array, checking for integer overflow in the array size
*/
```

```
_PUBLIC_ void *_talloc_zero_array(const void *ctx, size_t el_size, unsigned count, const char *name)
{
 if (count >= MAX_TALLOC_SIZE/el_size) {
  return NULL;
 }
 return _talloc_zero(ctx, el_size * count, name);
}

/*
 realloc an array, checking for integer overflow in the array size
*/
_PUBLIC_ void *_talloc_realloc_array(const void *ctx, void *ptr, size_t el_size, unsigned count, const char *name)
{
 if (count >= MAX_TALLOC_SIZE/el_size) {
  return NULL;
 }
 return _talloc_realloc(ctx, ptr, el_size * count, name);
}

/*
 a function version of talloc_realloc(), so it can be passed as a function pointer
 to libraries that want a realloc function (a realloc function encapsulates
 all the basic capabilities of an allocation library, which is why this is useful)
*/
_PUBLIC_ void *talloc_realloc_fn(const void *context, void *ptr, size_t size)
{
 return _talloc_realloc(context, ptr, size, NULL);
}


static int talloc_autofree_destructor(void *ptr)
{
 autofree_context = NULL;
 return 0;
}

static void talloc_autofree(void)
{
 talloc_free(autofree_context);
}

/*
 return a context which will be auto-freed on exit
 this is useful for reducing the noise in leak reports
*/
_PUBLIC_ void *talloc_autofree_context(void)
{
 if (autofree_context == NULL) {
```

```
  autofree_context = _talloc_named_const(NULL, 0, "autofree_context");
  talloc_set_destructor(autofree_context, talloc_autofree_destructor);
  atexit(talloc_autofree);
 }
 return autofree_context;
}

_PUBLIC_ size_t talloc_get_size(const void *context)
{
 struct talloc_chunk *tc;

 if (context == NULL) {
  context = null_context;
 }
 if (context == NULL) {
  return 0;
 }

 tc = talloc_chunk_from_ptr(context);

 return tc->size;
}

/*
 find a parent of this context that has the given name, if any
*/
_PUBLIC_ void *talloc_find_parent_byname(const void *context, const char *name)
{
 struct talloc_chunk *tc;

 if (context == NULL) {
  return NULL;
 }

 tc = talloc_chunk_from_ptr(context);
 while (tc) {
  if (tc->name && strcmp(tc->name, name) == 0) {
   return TC_PTR_FROM_CHUNK(tc);
  }
  while (tc && tc->prev) tc = tc->prev;
  if (tc) {
   tc = tc->parent;
  }
 }
 return NULL;
}

/*
```

```
 show the parentage of a context
*/
_PUBLIC_ void talloc_show_parents(const void *context, FILE *file)
{
 struct talloc_chunk *tc;

 if (context == NULL) {
  fprintf(file, "talloc no parents for NULL\n");
  return;
 }

 tc = talloc_chunk_from_ptr(context);
 fprintf(file, "talloc parents of '%s'\n", talloc_get_name(context));
 while (tc) {
  fprintf(file, "\t'%s'\n", talloc_get_name(TC_PTR_FROM_CHUNK(tc)));
  while (tc && tc->prev) tc = tc->prev;
  if (tc) {
   tc = tc->parent;
  }
 }
 fflush(file);
}

/*
 return 1 if ptr is a parent of context
*/
static int _talloc_is_parent(const void *context, const void *ptr, int depth)
{
 struct talloc_chunk *tc;

 if (context == NULL) {
  return 0;
 }

 tc = talloc_chunk_from_ptr(context);
 while (tc && depth > 0) {
  if (TC_PTR_FROM_CHUNK(tc) == ptr) return 1;
  while (tc && tc->prev) tc = tc->prev;
  if (tc) {
   tc = tc->parent;
   depth--;
  }
 }
 return 0;
}

/*
 return 1 if ptr is a parent of context
```

```
*/
_PUBLIC_ int talloc_is_parent(const void *context, const void *ptr)
{
 return _talloc_is_parent(context, ptr, TALLOC_MAX_DEPTH);
}
```

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1.145 libtdb 1.2.10 :1.el5

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  Unix SMB/CIFS implementation.

  Python interface to tdb.

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*/

#include <Python.h>
#include "replace.h"
#include "system/filesys.h"

#ifndef Py_RETURN_NONE
#define Py_RETURN_NONE return Py_INCREF(Py_None), Py_None
#endif

/* Include tdb headers */
#include <tdb.h>

typedef struct {
 PyObject_HEAD
 TDB_CONTEXT *ctx;
 bool closed;
} PyTdbObject;
```

```
staticforward PyTypeObject PyTdb;

static void PyErr_SetTDBError(TDB_CONTEXT *tdb)
{
 PyErr_SetObject(PyExc_RuntimeError,
  Py_BuildValue("(i,s)", tdb_error(tdb), tdb_errorstr(tdb)));
}

static TDB_DATA PyString_AsTDB_DATA(PyObject *data)
{
 TDB_DATA ret;
 ret.dptr = (unsigned char *)PyString_AsString(data);
 ret.dsize = PyString_Size(data);
 return ret;
}

static PyObject *PyString_FromTDB_DATA(TDB_DATA data)
{
 if (data.dptr == NULL && data.dsize == 0) {
  Py_RETURN_NONE;
 } else {
  PyObject *ret = PyString_FromStringAndSize((const char *)data.dptr,
              data.dsize);
  free(data.dptr);
  return ret;
   }
}

#define PyErr_TDB_ERROR_IS_ERR_RAISE(ret, tdb) \
 if (ret != 0) { \
  PyErr_SetTDBError(tdb); \
  return NULL; \
 }

static PyObject *py_tdb_open(PyTypeObject *type, PyObject *args, PyObject *kwargs)
{
 char *name = NULL;
 int hash_size = 0, tdb_flags = TDB_DEFAULT, flags = O_RDWR, mode = 0600;
 TDB_CONTEXT *ctx;
 PyTdbObject *ret;
 const char *kwnames[] = { "name", "hash_size", "tdb_flags", "flags", "mode", NULL };

 if (!PyArg_ParseTupleAndKeywords(args, kwargs, "|siiii", (char **)kwnames, &name, &hash_size, &tdb_flags,
&flags, &mode))
  return NULL;

 if (name == NULL) {
```

```
 tdb_flags |= TDB_INTERNAL;
 }

 ctx = tdb_open(name, hash_size, tdb_flags, flags, mode);
 if (ctx == NULL) {
  PyErr_SetFromErrno(PyExc_IOError);
  return NULL;
 }

 ret = PyObject_New(PyTdbObject, &PyTdb);
 if (!ret) {
  tdb_close(ctx);
  return NULL;
 }

 ret->ctx = ctx;
 ret->closed = false;
 return (PyObject *)ret;
}

static PyObject *obj_transaction_cancel(PyTdbObject *self)
{
 int ret = tdb_transaction_cancel(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_transaction_commit(PyTdbObject *self)
{
 int ret = tdb_transaction_commit(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_transaction_prepare_commit(PyTdbObject *self)
{
 int ret = tdb_transaction_prepare_commit(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_transaction_start(PyTdbObject *self)
{
 int ret = tdb_transaction_start(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}
```

```
static PyObject *obj_reopen(PyTdbObject *self)
{
 int ret = tdb_reopen(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_lockall(PyTdbObject *self)
{
 int ret = tdb_lockall(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_unlockall(PyTdbObject *self)
{
 int ret = tdb_unlockall(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_lockall_read(PyTdbObject *self)
{
 int ret = tdb_lockall_read(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_unlockall_read(PyTdbObject *self)
{
 int ret = tdb_unlockall_read(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_close(PyTdbObject *self)
{
 int ret;
 if (self->closed)
  Py_RETURN_NONE;
 ret = tdb_close(self->ctx);
 self->closed = true;
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_get(PyTdbObject *self, PyObject *args)
{
```

```
 TDB_DATA key;
 PyObject *py_key;
 if (!PyArg_ParseTuple(args, "O", &py_key))
  return NULL;

 key = PyString_AsTDB_DATA(py_key);

 return PyString_FromTDB_DATA(tdb_fetch(self->ctx, key));
}

static PyObject *obj_append(PyTdbObject *self, PyObject *args)
{
 TDB_DATA key, data;
 PyObject *py_key, *py_data;
 int ret;
 if (!PyArg_ParseTuple(args, "OO", &py_key, &py_data))
  return NULL;

 key = PyString_AsTDB_DATA(py_key);
 data = PyString_AsTDB_DATA(py_data);

 ret = tdb_append(self->ctx, key, data);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_firstkey(PyTdbObject *self)
{
 return PyString_FromTDB_DATA(tdb_firstkey(self->ctx));
}

static PyObject *obj_nextkey(PyTdbObject *self, PyObject *args)
{
 TDB_DATA key;
 PyObject *py_key;
 if (!PyArg_ParseTuple(args, "O", &py_key))
  return NULL;

 key = PyString_AsTDB_DATA(py_key);

 return PyString_FromTDB_DATA(tdb_nextkey(self->ctx, key));
}

static PyObject *obj_delete(PyTdbObject *self, PyObject *args)
{
 TDB_DATA key;
 PyObject *py_key;
 int ret;
```

```
 if (!PyArg_ParseTuple(args, "O", &py_key))
  return NULL;

 key = PyString_AsTDB_DATA(py_key);
 ret = tdb_delete(self->ctx, key);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_has_key(PyTdbObject *self, PyObject *args)
{
 TDB_DATA key;
 int ret;
 PyObject *py_key;
 if (!PyArg_ParseTuple(args, "O", &py_key))
  return NULL;

 key = PyString_AsTDB_DATA(py_key);
 ret = tdb_exists(self->ctx, key);
 if (ret != TDB_ERR_NOEXIST) {
  PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 }

 return (ret == TDB_ERR_NOEXIST)?Py_False:Py_True;
}

static PyObject *obj_store(PyTdbObject *self, PyObject *args)
{
 TDB_DATA key, value;
 int ret;
 int flag = TDB_REPLACE;
 PyObject *py_key, *py_value;

 if (!PyArg_ParseTuple(args, "OO|i", &py_key, &py_value, &flag))
  return NULL;

 key = PyString_AsTDB_DATA(py_key);
 value = PyString_AsTDB_DATA(py_value);

 ret = tdb_store(self->ctx, key, value, flag);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_add_flags(PyTdbObject *self, PyObject *args)
{
 unsigned flags;
```

```
 if (!PyArg_ParseTuple(args, "I", &flags))
  return NULL;

 tdb_add_flags(self->ctx, flags);
 Py_RETURN_NONE;
}

static PyObject *obj_remove_flags(PyTdbObject *self, PyObject *args)
{
 unsigned flags;

 if (!PyArg_ParseTuple(args, "I", &flags))
  return NULL;

 tdb_remove_flags(self->ctx, flags);
 Py_RETURN_NONE;
}

typedef struct {
 PyObject_HEAD
 TDB_DATA current;
 PyTdbObject *iteratee;
} PyTdbIteratorObject;

static PyObject *tdb_iter_next(PyTdbIteratorObject *self)
{
 TDB_DATA current;
 PyObject *ret;
 if (self->current.dptr == NULL && self->current.dsize == 0)
  return NULL;
 current = self->current;
 self->current = tdb_nextkey(self->iteratee->ctx, self->current);
 ret = PyString_FromTDB_DATA(current);
 return ret;
}

static void tdb_iter_dealloc(PyTdbIteratorObject *self)
{
 Py_DECREF(self->iteratee);
 PyObject_Del(self);
}

PyTypeObject PyTdbIterator = {
 .tp_name = "Iterator",
 .tp_basicsize = sizeof(PyTdbIteratorObject),
 .tp_iternext = (iternextfunc)tdb_iter_next,
 .tp_dealloc = (destructor)tdb_iter_dealloc,
 .tp_flags = Py_TPFLAGS_DEFAULT,
```

```
 .tp_iter = PyObject_SelfIter,
};

static PyObject *tdb_object_iter(PyTdbObject *self)
{
 PyTdbIteratorObject *ret;

 ret = PyObject_New(PyTdbIteratorObject, &PyTdbIterator);
 if (!ret)
  return NULL;
 ret->current = tdb_firstkey(self->ctx);
 ret->iteratee = self;
 Py_INCREF(self);
 return (PyObject *)ret;
}

static PyObject *obj_clear(PyTdbObject *self)
{
 int ret = tdb_wipe_all(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_repack(PyTdbObject *self)
{
 int ret = tdb_repack(self->ctx);
 PyErr_TDB_ERROR_IS_ERR_RAISE(ret, self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_enable_seqnum(PyTdbObject *self)
{
 tdb_enable_seqnum(self->ctx);
 Py_RETURN_NONE;
}

static PyObject *obj_increment_seqnum_nonblock(PyTdbObject *self)
{
 tdb_increment_seqnum_nonblock(self->ctx);
 Py_RETURN_NONE;
}

static PyMethodDef tdb_object_methods[] = {
 { "transaction_cancel", (PyCFunction)obj_transaction_cancel, METH_NOARGS,
  "S.transaction_cancel() -> None\n"
  "Cancel the currently active transaction." },
 { "transaction_commit", (PyCFunction)obj_transaction_commit, METH_NOARGS,
  "S.transaction_commit() -> None\n"
```

```
 "Commit the currently active transaction." },
{ "transaction_prepare_commit", (PyCFunction)obj_transaction_prepare_commit, METH_NOARGS,
 "S.transaction_prepare_commit() -> None\n"
 "Prepare to commit the currently active transaction" },
{ "transaction_start", (PyCFunction)obj_transaction_start, METH_NOARGS,
 "S.transaction_start() -> None\n"
 "Start a new transaction." },
{ "reopen", (PyCFunction)obj_reopen, METH_NOARGS, "Reopen this file." },
{ "lock_all", (PyCFunction)obj_lockall, METH_NOARGS, NULL },
{ "unlock_all", (PyCFunction)obj_unlockall, METH_NOARGS, NULL },
{ "read_lock_all", (PyCFunction)obj_lockall_read, METH_NOARGS, NULL },
{ "read_unlock_all", (PyCFunction)obj_unlockall_read, METH_NOARGS, NULL },
{ "close", (PyCFunction)obj_close, METH_NOARGS, NULL },
{ "get", (PyCFunction)obj_get, METH_VARARGS, "S.get(key) -> value\n"
 "Fetch a value." },
{ "append", (PyCFunction)obj_append, METH_VARARGS, "S.append(key, value) -> None\n"
 "Append data to an existing key." },
{ "firstkey", (PyCFunction)obj_firstkey, METH_NOARGS, "S.firstkey() -> data\n"
 "Return the first key in this database." },
{ "nextkey", (PyCFunction)obj_nextkey, METH_NOARGS, "S.nextkey(key) -> data\n"
 "Return the next key in this database." },
{ "delete", (PyCFunction)obj_delete, METH_VARARGS, "S.delete(key) -> None\n"
 "Delete an entry." },
{ "has_key", (PyCFunction)obj_has_key, METH_VARARGS, "S.has_key(key) -> None\n"
 "Check whether key exists in this database." },
{ "store", (PyCFunction)obj_store, METH_VARARGS, "S.store(key, data, flag=REPLACE) -> None"
 "Store data." },
{ "add_flags", (PyCFunction)obj_add_flags, METH_VARARGS, "S.add_flags(flags) -> None" },
{ "remove_flags", (PyCFunction)obj_remove_flags, METH_VARARGS, "S.remove_flags(flags) -> None" },
{ "iterkeys", (PyCFunction)tdb_object_iter, METH_NOARGS, "S.iterkeys() -> iterator" },
{ "clear", (PyCFunction)obj_clear, METH_NOARGS, "S.clear() -> None\n"
 "Wipe the entire database." },
{ "repack", (PyCFunction)obj_repack, METH_NOARGS, "S.repack() -> None\n"
 "Repack the entire database." },
{ "enable_seqnum", (PyCFunction)obj_enable_seqnum, METH_NOARGS,
 "S.enable_seqnum() -> None" },
{ "increment_seqnum_nonblock", (PyCFunction)obj_increment_seqnum_nonblock, METH_NOARGS,
 "S.increment_seqnum_nonblock() -> None" },
{ NULL }
};

static PyObject *obj_get_hash_size(PyTdbObject *self, void *closure)
{
 return PyInt_FromLong(tdb_hash_size(self->ctx));
}

static int obj_set_max_dead(PyTdbObject *self, PyObject *max_dead, void *closure)
{
```

```
 if (!PyInt_Check(max_dead))
  return -1;
 tdb_set_max_dead(self->ctx, PyInt_AsLong(max_dead));
 return 0;
}

static PyObject *obj_get_map_size(PyTdbObject *self, void *closure)
{
 return PyInt_FromLong(tdb_map_size(self->ctx));
}

static PyObject *obj_get_freelist_size(PyTdbObject *self, void *closure)
{
 return PyInt_FromLong(tdb_freelist_size(self->ctx));
}

static PyObject *obj_get_flags(PyTdbObject *self, void *closure)
{
 return PyInt_FromLong(tdb_get_flags(self->ctx));
}

static PyObject *obj_get_filename(PyTdbObject *self, void *closure)
{
 return PyString_FromString(tdb_name(self->ctx));
}

static PyObject *obj_get_seqnum(PyTdbObject *self, void *closure)
{
 return PyInt_FromLong(tdb_get_seqnum(self->ctx));
}


static PyGetSetDef tdb_object_getsetters[] = {
 { (char *)"hash_size", (getter)obj_get_hash_size, NULL, NULL },
 { (char *)"map_size", (getter)obj_get_map_size, NULL, NULL },
 { (char *)"freelist_size", (getter)obj_get_freelist_size, NULL, NULL },
 { (char *)"flags", (getter)obj_get_flags, NULL, NULL },
 { (char *)"max_dead", NULL, (setter)obj_set_max_dead, NULL },
 { (char *)"filename", (getter)obj_get_filename, NULL, (char *)"The filename of this TDB file."},
 { (char *)"seqnum", (getter)obj_get_seqnum, NULL, NULL },
 { NULL }
};

static PyObject *tdb_object_repr(PyTdbObject *self)
{
 if (tdb_get_flags(self->ctx) & TDB_INTERNAL) {
  return PyString_FromString("Tdb(<internal>)");
 } else {
```

```
  return PyString_FromFormat("Tdb('%s')", tdb_name(self->ctx));
 }
}

static void tdb_object_dealloc(PyTdbObject *self)
{
 if (!self->closed)
  tdb_close(self->ctx);
 self->ob_type->tp_free(self);
}

static PyObject *obj_getitem(PyTdbObject *self, PyObject *key)
{
 TDB_DATA tkey, val;
 if (!PyString_Check(key)) {
  PyErr_SetString(PyExc_TypeError, "Expected string as key");
  return NULL;
 }

 tkey.dptr = (unsigned char *)PyString_AsString(key);
 tkey.dsize = PyString_Size(key);

 val = tdb_fetch(self->ctx, tkey);
 if (val.dptr == NULL) {
  PyErr_SetString(PyExc_KeyError, "No such TDB entry");
  return NULL;
 } else {
  return PyString_FromTDB_DATA(val);
 }
}

static int obj_setitem(PyTdbObject *self, PyObject *key, PyObject *value)
{
 TDB_DATA tkey, tval;
 int ret;
 if (!PyString_Check(key)) {
  PyErr_SetString(PyExc_TypeError, "Expected string as key");
  return -1;
 }

 tkey = PyString_AsTDB_DATA(key);

 if (value == NULL) {
  ret = tdb_delete(self->ctx, tkey);
 } else {
  if (!PyString_Check(value)) {
   PyErr_SetString(PyExc_TypeError, "Expected string as value");
   return -1;
```

```
  }

  tval = PyString_AsTDB_DATA(value);

  ret = tdb_store(self->ctx, tkey, tval, TDB_REPLACE);
 }

 if (ret != 0) {
  PyErr_SetTDBError(self->ctx);
  return -1;
 }

 return ret;
}

static PyMappingMethods tdb_object_mapping = {
 .mp_subscript = (binaryfunc)obj_getitem,
 .mp_ass_subscript = (objobjargproc)obj_setitem,
};
static PyTypeObject PyTdb = {
 .tp_name = "tdb.Tdb",
 .tp_basicsize = sizeof(PyTdbObject),
 .tp_methods = tdb_object_methods,
 .tp_getset = tdb_object_getsetters,
 .tp_new = py_tdb_open,
 .tp_doc = "A TDB file",
 .tp_repr = (reprfunc)tdb_object_repr,
 .tp_dealloc = (destructor)tdb_object_dealloc,
 .tp_as_mapping = &tdb_object_mapping,
 .tp_flags = Py_TPFLAGS_DEFAULT|Py_TPFLAGS_BASETYPE|Py_TPFLAGS_HAVE_ITER,
 .tp_iter = (getiterfunc)tdb_object_iter,
};

static PyMethodDef tdb_methods[] = {
 { "open", (PyCFunction)py_tdb_open, METH_VARARGS|METH_KEYWORDS, "open(name, hash_size=0,
tdb_flags=TDB_DEFAULT, flags=O_RDWR, mode=0600)\n"
  "Open a TDB file." },
 { NULL }
};

void inittdb(void);
void inittdb(void)
{
 PyObject *m;

 if (PyType_Ready(&PyTdb) < 0)
  return;
```

```
 if (PyType_Ready(&PyTdbIterator) < 0)
  return;

 m = Py_InitModule3("tdb", tdb_methods,
  "simple key-value database that supports multiple writers.");
 if (m == NULL)
  return;

 PyModule_AddObject(m, "REPLACE", PyInt_FromLong(TDB_REPLACE));
 PyModule_AddObject(m, "INSERT", PyInt_FromLong(TDB_INSERT));
 PyModule_AddObject(m, "MODIFY", PyInt_FromLong(TDB_MODIFY));

 PyModule_AddObject(m, "DEFAULT", PyInt_FromLong(TDB_DEFAULT));
 PyModule_AddObject(m, "CLEAR_IF_FIRST", PyInt_FromLong(TDB_CLEAR_IF_FIRST));
 PyModule_AddObject(m, "INTERNAL", PyInt_FromLong(TDB_INTERNAL));
 PyModule_AddObject(m, "NOLOCK", PyInt_FromLong(TDB_NOLOCK));
 PyModule_AddObject(m, "NOMMAP", PyInt_FromLong(TDB_NOMMAP));
 PyModule_AddObject(m, "CONVERT", PyInt_FromLong(TDB_CONVERT));
 PyModule_AddObject(m, "BIGENDIAN", PyInt_FromLong(TDB_BIGENDIAN));
 PyModule_AddObject(m, "NOSYNC", PyInt_FromLong(TDB_NOSYNC));
 PyModule_AddObject(m, "SEQNUM", PyInt_FromLong(TDB_SEQNUM));
 PyModule_AddObject(m, "VOLATILE", PyInt_FromLong(TDB_VOLATILE));
 PyModule_AddObject(m, "ALLOW_NESTING", PyInt_FromLong(TDB_ALLOW_NESTING));
 PyModule_AddObject(m, "DISALLOW_NESTING", PyInt_FromLong(TDB_DISALLOW_NESTING));
 PyModule_AddObject(m, "INCOMPATIBLE_HASH", PyInt_FromLong(TDB_INCOMPATIBLE_HASH));

 PyModule_AddObject(m, "__docformat__", PyString_FromString("restructuredText"));

 PyModule_AddObject(m, "__version__", PyString_FromString(PACKAGE_VERSION));

 Py_INCREF(&PyTdb);
 PyModule_AddObject(m, "Tdb", (PyObject *)&PyTdb);

 Py_INCREF(&PyTdbIterator);
}
#!/usr/bin/env python
# encoding: ISO-8859-1
# Thomas Nagy, 2005-2010

"""
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POSSIBILITY OF SUCH DAMAGE.
"""

import os, sys
if sys.hexversion<0x203000f: raise ImportError("Waf requires Python >= 2.3")

if 'PSYCOWAF' in os.environ:
 try:import psyco;psyco.full()
 except:pass

VERSION="1.5.19"
REVISION="x"
INSTALL="x"
C1='x'
C2='x'
cwd = os.getcwd()
join = os.path.join

WAF='waf'
def b(x):
 return x

if sys.hexversion>0x300000f:
 WAF='waf3'
 def b(x):
  return x.encode()

def err(m):
 print(('\033[91mError: %s\033[0m' % m))
 sys.exit(1)

def test(dir):
```

```
 try: os.stat(join(dir, 'wafadmin')); return os.path.abspath(dir)
 except OSError: pass

def find_lib():
 return os.path.abspath(os.path.dirname(os.path.dirname(__file__)))

wafdir = find_lib()
w = join(wafdir, 'wafadmin')
t = join(w, 'Tools')
f = join(w, '3rdparty')
sys.path = [w, t, f] + sys.path

if __name__ == '__main__':
 import Scripting
 Scripting.prepare(t, cwd, VERSION, wafdir)
```

1.146 libtermcap 2.0.8 :46.1

1.146.1 Available under license :

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Version 2.1, February 1999

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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.

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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.

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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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e) Verify that the user has already received a copy of these

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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.

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.

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That's all there is to it!

1.147 libtiff 3.8.2 :2006-03-23 Andrey Kiselev

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1.148 libusb 0.1.12 :6.el5

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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.

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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

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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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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.
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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.
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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.
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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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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.

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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.

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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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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.
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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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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.

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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.

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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 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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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.
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Supply the specified configuration type as an argument.
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1.153 libXau 1.0.1 :3.1

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1.155 libXcursor 1.1.7 :1.2

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# Originally written by Per Bothner <per@bothner.com>.
```

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diff and a properly formatted ChangeLog entry.
#
This script attempts to guess a canonical system name similar to
config.sub. If it succeeds, it prints the system name on stdout, and
exits with 0. Otherwise, it exits with 1.
#
The plan is that this can be called by configure scripts if you
don't specify an explicit build system type.

1.156 libXdmcp 1.0.1 :2.1

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1.159 libXfont 1.2.2 :Sep 12 2006 Adam Jackson

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written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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1.160 libXfontcache 1.0.2 :3.1

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1.161 libXft 2.1.10 :1.1

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1.162 libXi 1.0.1 :4.el5_4

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1.165 libxml2 2.6.26 :Jun 6 2006 Daniel Veillard

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*
* based on xsltproc.c, by Daniel.Veillard@imag.fr
* by John Fleck
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1.173 libXt 1.0.2 :3.2.el5

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1.178 lm_sensors 2.10.7 :9.el5

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1.179 logrotate 3.7.4 :14

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1.180 lsof 4.78 :6

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1.185 MAKEDEV 3.23 :1.2

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1.186 man 1.6d :3.el5

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1.187 mcstrans 0.2.11 :3.el5

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1.188 mesa-libGL 6.5.1 :7.11.el5_9

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1.189 mingetty 1.07 :5.2.2

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1.190 mkinitrd 5.1.19.6 :79.el5

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1.194 net-snmp 5.3.2.2 :25.el5_11

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1.196 newt 0.52.2 :15.el5

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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.

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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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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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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.

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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.

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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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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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49. mailto:%20pebbles.jpl.nasa.gov
50. mailto:%20harlan@pfcs.com
51. mailto:%20ken@sdd.hp.com
52. mailto:%20ajit@ee.udel.edu
53. mailto:%20tsuruoka@nc.fukuoka-u.ac.jp
54. mailto:%20vixie@vix.com
55. mailto:%20Ulrich.Windl@rz.uni-regensburg.de

Replied: Fri, 16 Feb 2001 14:12:54 -0500
Replied: "Darren Reed <darrenr@reed.wattle.id.au> "
Received: from [139.134.6.79] by whimsy.udel.edu id aa15476;
16 Feb 2001 04:21 EST
Received: from CPE-61-9-164-106.vic.bigpond.net.au
([139.134.4.52]) by mailin6.bigpond.com (Netscape Messaging
Server 4.15) with SMTP id G8UFIB00.4QI for
<stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 19:25:23 +1000
Received: from CPE-61-9-164-110.vic.bigpond.net.au ([61.9.164.110]) by mail5.bigpond.com (Claudes-Retiring-MailRouter V2.9c 9/11963672); 16 Feb 2001 19:20:45
Received: (from root@localhost)
by CPE-61-9-164-106.vic.bigpond.net.au (8.11.0/8.11.0) id f1G92GC29158
for <stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 20:02:16 +1100
From: Darren Reed <darrenr@reed.wattle.id.au>
Message-Id: <200102160901.UAA23657@avalon.reed.wattle.id.au>
Subject: Re: arlib?
In-Reply-To: <901.982219274@whimsy.udel.edu> from Harlan Stenn at "Feb 15, 1 01:41:14 am"
To: Harlan Stenn <stenn@whimsy.udel.edu>
Date: Fri, 16 Feb 2001 20:01:46 +1100
X-Mailer: ELM [version 2.4ME+ PL37 (25)]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

In some email I received from Harlan Stenn, sie wrote:
> Darren,
>
> I'm looking for an async resolver library that I can use with NTP.
>
> I noticed your code in the contrib/ subdir of later bind8 distribution
> and I noticed the Copyright notice in arlib.c:
>
> * arlib.c (C)opyright 1993 Darren Reed. All rights reserved.
> * This file may not be distributed without the author's permission in any
> * shape or form. The author takes no responsibility for any damage or loss
> * of property which results from the use of this software.
>
> so I thought I'd ask your permission to distribute your files if I can
> figure out how to make it all work with ntpd.

http://coombs.anu.edu.au/~avalon/arlib.tar.gz

a few bug fixes (inc. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren

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1.204 ntp_ntpstat_0.2 4.2.2p1 :18.el5_11

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1.207 openib 1.5.4.1 :4.el5

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```
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. /etc/init.d/functions

cd /etc/sysconfig/network-scripts
. ./network-functions

[ -f ../network ] && . ../network

CONFIG=${1}

source_config

. /etc/sysconfig/network

# Check to make sure the device is actually up
check_device_down ${DEVICE} && [ "$BOOTPROTO" != "dhcp" -a "$BOOTPROTO" != "bootp" ] && [ -n
"$VLAN" -a "$VLAN" != "yes" ] && exit 0

if [ "${SLAVE}" != "yes" -o -z "${MASTER}" ]; then
if [ -n "${HWADDR}" -a -z "${MACADDR}" ]; then
  HWADDR=$(echo $HWADDR | tail -c 24)
  FOUNDMACADDR=$(get_hwaddr ${REALDEVICE} | tail -c 24)
  if [ -n "${FOUNDMACADDR}" -a "${FOUNDMACADDR}" != "${HWADDR}" ]; then
     NEWCONFIG=$(get_config_by_hwaddr ${FOUNDMACADDR})
 if [ -n "${NEWCONFIG}" ]; then
   eval $(LANG=C grep -F "DEVICE=" $NEWCONFIG)
 else
   net_log $"Device ${DEVICE} has MAC address ${FOUNDMACADDR}, instead of configured address
${HWADDR}. Ignoring."
   exit 1
 fi
 if [ -n "${NEWCONFIG}" -a "${NEWCONFIG##*/}" != "${CONFIG##*/}" -a "${DEVICE}" =
"${REALDEVICE}" ]; then
   exec /sbin/ifdown ${NEWCONFIG}
 else
   net_log $"Device ${DEVICE} has MAC address ${FOUNDMACADDR}, instead of configured address
${HWADDR}. Ignoring."
   exit 1
 fi
  fi
fi
fi

if is_bonding_device ${DEVICE} ; then
  for device in $(LANG=C egrep -l "^[[:space:]]*MASTER=\"?${DEVICE}\"?" /etc/sysconfig/network-
scripts/ifcfg-*) ; do
```

```
 is_ignored_file "$device" && continue
 /sbin/ifdown ${device##*/}
   done
   for arg in $BONDING_OPTS ; do
 key=${arg%%=*};
 [[ "${key}" != "arp_ip_target" ]] || continue
 value=${arg##*=};
 if [ "${value:0:1}" != "" ]; then
          OLDIFS=$IFS;
          IFS=',';
          for arp_ip in $value; do
  if grep -q $arp_ip /sys/class/net/${DEVICE}/bonding/arp_ip_target; then
                echo "-$arp_ip" > /sys/class/net/${DEVICE}/bonding/arp_ip_target
  fi
          done
          IFS=$OLDIFS;
 else
     value=${value#+};
     if grep -q $value /sys/class/net/${DEVICE}/bonding/arp_ip_target; then
              echo "-$value" > /sys/class/net/${DEVICE}/bonding/arp_ip_target
     fi
 fi
   done
fi

/etc/sysconfig/network-scripts/ifdown-ipv6 ${CONFIG}

retcode=0
[ -n "$(pidof -x dhclient)" ] && {
  for VER in "" 6 ; do
 if [ -f "/var/run/dhclient$VER-${DEVICE}.pid" ]; then
  dhcpid=$(cat /var/run/dhclient$VER-${DEVICE}.pid)
  if [[ "$DHCPRELEASE" = [yY1]* ]];  then
   /sbin/dhclient -r -lf /var/lib/dhclient/dhclient$VER-${DEVICE}.leases -pf /var/run/dhclient-${DEVICE}.pid
${DEVICE} >/dev/null 2>&1
   retcode=$?
  else
   kill $dhcpid >/dev/null 2>&1
   retcode=$?
   reason=STOP$VER interface=${DEVICE} /sbin/dhclient-script
  fi
  if [ -f "/var/run/dhclient$VER-${DEVICE}.pid" ]; then
   rm -f /var/run/dhclient$VER-${DEVICE}.pid
   kill $dhcpid >/dev/null 2>&1
  fi
 fi
   done
}
```

```
# we can't just delete the configured address because that address
# may have been changed in the config file since the device was
# brought up.  Flush all addresses associated with this
# instance instead.
if [ -d "/sys/class/net/${REALDEVICE}" ]; then
 if [ "${REALDEVICE}" = "${DEVICE}" ]; then
  ip addr flush dev ${REALDEVICE} 2>/dev/null
 else
  ip addr flush dev ${REALDEVICE} label ${DEVICE} 2>/dev/null
 fi

 if [ "${SLAVE}" = "yes" -a -n "${MASTER}" ]; then
  echo "-${DEVICE}" > /sys/class/net/${MASTER}/bonding/slaves 2>/dev/null
 fi

 if [ "${REALDEVICE}" = "${DEVICE}" ]; then
   ip link set dev ${DEVICE} down 2>/dev/null
 fi
fi
[ "$retcode" = "0" ] && retcode=$?

if [ -n "${BRIDGE}" ] && [ -x /usr/sbin/brctl ]; then
    /sbin/ip link set dev ${DEVICE} down
    /usr/sbin/brctl delif ${BRIDGE} ${DEVICE}
    # Upon removing a device from a bridge,
    # it's necessary to make radvd reload its config
    [ -r /var/run/radvd/radvd.pid ] && kill -HUP $(cat /var/run/radvd/radvd.pid)
    if [ -d /sys/class/net/${BRIDGE}/brif ] && [ $(ls -1 /sys/class/net/${BRIDGE}/brif | wc -l) -eq 0 ]; then
  /usr/sbin/brctl delbr ${BRIDGE}
    fi
fi

if [ "${TYPE}" = "Tap" ]; then
 tunctl -d "${DEVICE}" >/dev/null
fi

# wait up to 5 seconds for device to actually come down...
waited=0
while ! check_device_down ${DEVICE} && [ "$waited" -lt 50 ] ; do
   usleep 10000
   waited=$(($waited+1))
done

# don't leave an outdated key sitting around
if [ -n "${WIRELESS_ENC_KEY}" ] && [ -x /sbin/iwconfig ]; then
   /sbin/iwconfig ${DEVICE} enc 0 >/dev/null 2>&1
fi
```

```
if [ "$retcode" = 0 ] ; then
   /etc/sysconfig/network-scripts/ifdown-post $CONFIG
   # do NOT use $? because ifdown should return whether or not
   # the interface went down.
fi

if [ -n "$VLAN" ]; then
   # 802.1q VLAN
   if echo ${DEVICE} | LANG=C grep -Ev '(:)' | LANG=C grep -Eq '(eth|bond)[0-9][0-9]*\.[0-9][0-9]?[0-9]?[0-9]?'
\
 || echo ${DEVICE} | LANG=C grep -Eq 'vlan[0-9][0-9]?[0-9]?[0-9]?' ; then
 [ -f /proc/net/vlan/${DEVICE} ] && {
     ip link delete ${DEVICE} type vlan
 }
   fi
fi

exit $retcode
```

1.208 openjade 1.3.2 :27

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1.209 openldap 2.3.43 :28.el5_10

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 *
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 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.214 ORBit2 2.14.3 :5.el5

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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<one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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in new free programs; and that you know you can do these things.

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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.

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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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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.

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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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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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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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* syriac-ot.h: Determine what OpenType features to apply to characters based
* on the rules for Syriac from the OpenType standard.
*

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* Author: Emil Soleyman-Zomalan <emil@soleyman.com>
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Behdad Esfahbod
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13 March 2006

1.217 paps 0.6.6 :20.el5

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1.218 paramiko 1.11.6

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1.224 pcre 6.6 :6.el5_6.1

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1.226 perl-Net-Telnet 3.03 :5

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1.227 perl-XML-LibXML 1.58 :6

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<signature of Ty Coon>, 1 April 1989
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1.228 perl-XML-LibXML-Common 0.13 :8.2.2

1.228.1 Available under license :

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<one line to give the program's name and a brief idea of what it does.>
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at assemblers) written by James Hacker.

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

That's all there is to it!

1.229 perl-XML-NamespaceSupport 1.09 :1.2.1

1.229.1 Available under license :

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1.230 perl-XML-SAX 0.14 :13.el5

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(should we include the full text here?)

1.231 pexpect 2.3 :3.el5

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1.232 php 5.1.6 :45.el5_11

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1.233 pm-utils 0.99.3 :14.el5

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vbetool-0.1

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1.237 postgresql 8.1.23 :2010-12-16

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ppp-2.4.5/pppd/plugins/minconn.c
ppp-2.4.5/pppdump/pppdump.c

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ppp-2.4.5/pppd/chap-md5.c
ppp-2.4.5/pppd/chap-md5.h
ppp-2.4.5/pppd/chap-new.c
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ppp-2.4.5/include/linux/if_ppp.h
ppp-2.4.5/include/net/if_ppp.h
ppp-2.4.5/pppd/auth.c
ppp-2.4.5/pppd/fsm.c
ppp-2.4.5/pppd/fsm.h

ppp-2.4.5/pppd/ipcp.c
ppp-2.4.5/pppd/ipcp.h
ppp-2.4.5/pppd/ipv6cp.c
ppp-2.4.5/pppd/ipv6cp.h
ppp-2.4.5/pppd/ipxcp.c
ppp-2.4.5/pppd/ipxcp.h
ppp-2.4.5/pppd/lcp.c
ppp-2.4.5/pppd/lcp.h
ppp-2.4.5/pppd/magic.c
ppp-2.4.5/pppd/magic.h
ppp-2.4.5/pppd/main.c
ppp-2.4.5/pppd/options.c
ppp-2.4.5/pppd/pppd.h
ppp-2.4.5/pppd/session.c
ppp-2.4.5/pppd/sys-linux.c
ppp-2.4.5/pppd/sys-solaris.c
ppp-2.4.5/pppd/tty.c
ppp-2.4.5/pppd/upap.c
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ppp-2.4.5/include/net/vjcompress.h

ppp-2.4.5/modules/vjcompress.c
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ppp-2.4.5/common/zlib.c
ppp-2.4.5/common/zlib.h
ppp-2.4.5/pppdump/zlib.c
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*
* Updated to ppp-2.4.2 by David Woodhouse 2004.
* - disconnect method added

```
*  - remove_options() abuse removed.
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ppp-2.4.5/pppd/plugins/radius/Makefile.linux
ppp-2.4.5/pppd/plugins/radius/radattr.c
ppp-2.4.5/pppd/plugins/rp-pppoe/common.c
ppp-2.4.5/pppd/plugins/rp-pppoe/debug.c
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ppp-2.4.5/pppd/plugins/radius/clientid.c
ppp-2.4.5/pppd/plugins/radius/config.c
ppp-2.4.5/pppd/plugins/radius/dict.c
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ppp-2.4.5/pppd/plugins/radius/ip_util.c
ppp-2.4.5/pppd/plugins/radius/lock.c
ppp-2.4.5/pppd/plugins/radius/options.h
ppp-2.4.5/pppd/plugins/radius/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
ppp-2.4.5/pppd/plugins/radius/sendserver.c
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ppp-2.4.5/pppd/plugins/radius/dict.c
ppp-2.4.5/pppd/plugins/radius/includes.h
ppp-2.4.5/pppd/plugins/radius/ip_util.c
ppp-2.4.5/pppd/plugins/radius/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
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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.]

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1.240 procmail 3.22 :17.1.2

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1.243 psmisc 22.2 :11

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1.244 pycairo 1.2.0 :1.1

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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 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.

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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.

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.

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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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(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.

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.

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1.248 pysnmp 4.2.5

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1.249 python 2.4.3 :56.el5

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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	2.4.1	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes

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install - install a program, script, or datafile

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1.250 python-ctypes 1.0.2 :3.el5

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1.251 python-dmidecode 3.10.13 :1.el5_5.1

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*
*
*  This include file is taken from the libxml2 source tree, to provide the needed
*  declarations to implement usage of libxml2xml.so
*                          (David Sommerseth <davids@redhat.com>, 2009)
*
*/
```

1.252 python-docs 2.4.3 :1.1

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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	2.4.1	2005	PSF	yes
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1.253 python-elementtree 1.2.6 :5

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1.255 python-imaging 1.1.5 :7.el5

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1.256 python-iniparse 0.2.3 :6.el5

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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.

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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
2.2	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
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1.257 python-ldap 2.2.0 :2.1

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1.258 python-numeric 23.7 :2.2.2.el5_6.1

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-- Paul F. Dubois, Jan. 13, 2000.
This is the official license for the Python 2.2.1 release:

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 (see http://www.digicool.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. Digital Creations 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	no
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
2.2.1	2.2	2002	PSF	yes

Footnotes:

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Thanks to the many outside volunteers who have worked under Guido's

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1.259 python-pyblock 0.26 :4.el5

1.259.1 Available under license :

```
%define realname pyblock
%define pyver %(%{__python} -c "import sys; print sys.version[:3]")
%{!?python_sitelib: %define python_sitelib %(%{__python} -c "from distutils.sysconfig import get_python_lib;
print get_python_lib(1)[1:]")}
%define dmrver 1.0.0.rc13-14

Summary: Python modules for dealing with block devices
Name: python-%{realname}
Version: 0.26
Release: 4%{?dist}
Source0: %{realname}-%{version}.tar.bz2
License: GPL
Group: System Environment/Libraries
BuildRoot: %{_tmppath}/%{name}-%{version}-root
BuildRequires: python-devel, gettext, device-mapper >= 1.01.05-3
BuildRequires: dmraid-devel >= %{dmrver}, libselinux-devel, libsepol-devel
BuildRequires: zlib-devel, libbdevid >= 5.1.0
Requires: python >= %{pyver}, device-mapper >= 1.01.04, libselinux
Requires: libbdevid, libbdevid-python, dmraid >= %{dmrver}

Patch0: %{name}-0.26-new-dmraid-api.patch
Patch1: %{name}-0.26-recursive-devices.patch
Patch2: %{name}-0.26-discover-raidsets.patch

%description
The pyblock contains Python modules for dealing with block devices.

%prep
%setup -q -n %{realname}-%{version}

%patch0  -p1 -b %{name}-0.26-new-dmraid-api.patch
%patch1  -p1 -b %{name}-0.26-recursive-devices.patch
%patch2  -p1 -b %{name}-0.26-discover-raidsets.patch
#make

%build

%install
```

```
rm -rf $RPM_BUILD_ROOT
make DESTDIR=${RPM_BUILD_ROOT} SITELIB=%{python_sitelib} install

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%dir /%{python_sitelib}/block
/%{python_sitelib}/block/*

%changelog
* Tue Mar 31 2009 Joel Granados <jgranado@redhat.com> - 0.26-4
- Correct the way that raidsets are discivered (hansg).
 Related: rhbz:#475386
- Fix raid10 (jgranado).
 Related: rhbz:#475386

* Thu Dec 4 2008 Joel Granados <jgranado@redhat.com> - 0.26-3
- Rebuild to correct libdmraid so file version strangeness.
 Related: rhbz:#474517

* Fri Oct 17 2008 Joel Granados <jgranado@redhat.com> - 0.26-2
- Modify pyblock so it understands the new mdraid API.
 Resolves: rhbz:#437184

* Fri Jul  6 2007 Peter Jones <pjones@redhat.com> - 0.26-1
- Fix sorting of devices during getMPaths()
 Related: #130236

* Fri Oct 20 2006 Peter Jones <pjones@redhat.com> - 0.25-1
- fix refcounting of map names and partition building for new maps (#210412)
- fix naming so device names on a single controller are in LUN order

* Fri Sep 29 2006 Peter Jones <pjones@redhat.com> - 0.24-1
- add block.load() to load specific bdevid probes instead of always
 doing loadAll() (#208423)
- make block.getMPaths() return a sorted list (#208337, #208431)

* Mon Sep 25 2006 Peter Jones <pjones@redhat.com> - 0.23-1
- Link against zlib

* Sun Sep 24 2006 Jeremy Katz <katzj@redhat.com> - 0.22-2
- rebuild against new dmraid

* Wed Sep 13 2006 Peter Jones <pjones@redhat.com> - 0.22-1
- Fix partition removal when we've changed the partition table out from
 under a RaidSet or MultiPath.
```

* Fri Sep 8 2006 Peter Jones <pjones@redhat.com> - 0.21-1
- Be more picky about unique IDs for multipath

* Mon Aug 28 2006 Peter Jones <pjones@redhat.com> - 0.20-1
- Fix error with map naming and deletion

* Wed Aug 23 2006 Peter Jones <pjones@redhat.com> - 0.19-1
- Make RaidSet deactivation work like MultiPath deactivation. Fixes a
 traceback when removing partition maps.

* Thu Aug 17 2006 Peter Jones <pjones@redhat.com> - 0.18-2
- No s390/s390x excludearch

* Thu Aug 3 2006 Peter Jones <pjones@redhat.com> - 0.18-1
- Fixes for multiple multipaths

* Fri Jul 28 2006 Peter Jones <pjones@redhat.com> - 0.17-2
- Require dmraid, since we're using the .so now.

* Wed Jul 26 2006 Peter Jones <pjones@redhat.com> - 0.17-1
- make multipath support more robust
- fix leaky file descriptor on volumes without partition tables

* Wed Jul 19 2006 Jeremy Katz <katzj@redhat.com> - 0.16-2
- require libbdevid

* Mon Jul 17 2006 Peter Jones <pjones@redhat.com> - 0.16-1
- new release with rudamentary support for multipath

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 0.15-2.1
- rebuild

* Mon Jun 05 2006 Jesse Keating <jkeating@redhat.com> - 0.15-2
- Add missing BuildRequires of zlib-devel

* Wed Feb 22 2006 Peter Jones <pjones@redhat.com> - 0.15-1
- Fix use of devices in /tmp to avoid duplicates. (fixes console spew during
 install)

* Mon Feb 13 2006 Peter Jones <pjones@redhat.com> - 0.14-1
- remove member partitions when we activate, rebuild them when we deactivate
- add another "count_devices(ctx->lc, NATIVE)" in discover_raiddevs. it
 seems to help...

* Fri Feb 10 2006 Jesse Keating <jkeating@redhat.com> - 0.13-1.1
- bump again for double-long bug on ppc(64)

* Mon Feb 6 2006 Peter Jones <pjones@redhat.com> - 0.13-1
- partition naming/creation/detection fixes
- fixes for isw (ICH[4567]R) "groups"

* Tue Jan 31 2006 Peter Jones <pjones@redhat.com> - 0.12-1
- split __init__.py into separate files according to function
- disable "nosync" hack for now
- fix a refcounting bug in pydmraid_raidset_get_dm_table()
- add block.RaidDev.__cmp__()
- fix some type errors gcc can't check for when using pyblock_potoll
- be a little pickier about types for mode, devices, and sizes.
- add make rules for debugging
- fix "_init__" typo
- always use local import paths, and be much more strict about namespaces
- always make a new dm.device in BlockDev.From*()
- better defaults in BlockDev.create()
- add setter for block.dmraid.raidset.name, and rework RaidSet.set_name()
- rework RaidDev.get_bdev()
- rework "prefix" for RaidSet and RaidDev
- add getter for block.dmraid.raidset.map
- change arg order on block.dm.map.__init__() since there's no way to pass
 keyword args through the "abstract" interface.
- use self.name not self.rs.name in the RaidSet, and make changing the name
 work.
- make pydm_map_compare() compare names _last_, so we can compare a map
 that's been renamed with its earlier instantiations correctly.
- mark a device as degraded if there's any descrepancy at all between
 the number of members we find vs what we expect

* Thu Jan 5 2006 Peter Jones <pjones@redhat.com> - 0.11-1
- never trust dmraid on sync vs nosync; right now, always transform the
 table to "default" (no argument), which is to sync only when necessary,
 whatever that means. Seems to lock up less often.

* Wed Jan 4 2006 Peter Jones <pjones@redhat.com> - 0.10-1
- fix checking for "degraded" raids

* Mon Dec 19 2005 Peter Jones <pjones@redhat.com> - 0.9-1
- fix some backwards isinstance() calls that cause RaidSet.get_valid()
 to fail

* Thu Dec 15 2005 Peter Jones <pjones@redhat.com> - 0.8-1
- prevent getRaidSets() from returning devices with missing members
- add "make flat_install" to make installing in RHupdates easier ;)

* Sun Dec 11 2005 Peter Jones <pjones@redhat.com> - 0.7-1
- merge debugging work from last several weeks

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com> - 0.6-3.1
- rebuilt

* Sun Dec 4 2005 Peter Jones <pjones@redhat.com> - 0.6-3
- rebuild for newer libs

* Thu Nov 17 2005 Peter Jones <pjones@redhat.com> - 0.6-2
- temporarily mask exceptions

* Thu Nov 17 2005 Peter Jones <pjones@redhat.com> - 0.6-1
- fix RaidSets/getRaidSets

* Wed Nov 16 2005 Peter Jones <pjones@redhat.com> - 0.5-2
- rebuild for newer libdevmapper.a

* Fri Nov 11 2005 Peter Jones <pjones@redhat.com> - 0.5-1
- make it possible to easily build dm maps from dmraid tables
- support for partition table scanning

* Thu Nov 10 2005 Peter Jones <pjones@redhat.com> - 0.4-1
- minor fixups before adding to the distro

* Wed Nov 9 2005 Peter Jones <pjones@redhat.com> - 0.3-1
- make dmraid probing much simpler

* Thu Sep 22 2005 Peter Jones <pjones@redhat.com> - 0.2-2
- flush out dmraid mappings, add a lot of wrapper code in the toplevel

* Tue Sep 13 2005 Peter Jones <pjones@redhat.com> - 0.2-1
- add deps on libdevmapper and libdmraid

* Fri Sep 9 2005 Peter Jones <pjones@redhat.com> - 0.1-1
- initial package

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1.260 python-pycurl 7.15.5.1 :8.el5

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1.262 python-setuptools 0.6c5 :2.el5

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1.263 python-simplejson 2.0.9 :8.el5

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1.264 python-sqlite 1.1.7 :1.2.1

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1.265 python-suds 0.4.1 :2.el5

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1.266 python-urlgrabber 3.1.0 :6.el5

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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.

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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.

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.

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1.267 readline 5.1 :3.el5

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c) 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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1.269 redhat-lsb 4.0 :2.1.4.el5

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1.271 rhpl 0.194.1 :2

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* $Id: TestReplication.java,v 1.7 2004/01/28 03:36:34 bostic Exp $
*/

/*
* Simple test of replication, merely to exercise the individual
* methods in the API. Rather than use TCP/IP, our transport
* mechanism is just an ArrayList of byte arrays.
* It's managed like a queue, and synchronization is via
* the ArrayList object itself and java's wait/notify.
* It's not terribly extensible, but it's fine for a small test.
*/

package com.sleepycat.test;

```
import com.sleepycat.db.*;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.Vector;

public class TestReplication extends Thread
  implements DbRepTransport
{
  public static final String MASTER_ENVDIR = "./master";
  public static final String CLIENT_ENVDIR = "./client";

  private Vector queue = new Vector();
  private DbEnv master_env;
  private DbEnv client_env;

  private static void mkdir(String name)
     throws IOException
  {
     (new File(name)).mkdir();
  }


  // The client thread runs this
  public void run()
  {
     try {
        System.err.println("c10");
        client_env = new DbEnv(0);
        System.err.println("c11");
        client_env.set_rep_transport(1, this);
        System.err.println("c12");
        client_env.open(CLIENT_ENVDIR, Db.DB_CREATE | Db.DB_INIT_MPOOL, 0);
        System.err.println("c13");
        Dbt myid = new Dbt("master01".getBytes());
        System.err.println("c14");
        client_env.rep_start(myid, Db.DB_REP_CLIENT);
        System.err.println("c15");
        DbEnv.RepProcessMessage processMsg = new DbEnv.RepProcessMessage();
        processMsg.envid = 2;
        System.err.println("c20");
        boolean running = true;

        Dbt control = new Dbt();
        Dbt rec = new Dbt();

        while (running) {
```

```
int msgtype = 0;

System.err.println("c30");
synchronized (queue) {
   if (queue.size() == 0) {
      System.err.println("c40");
      sleepShort();
   }
   else {
      msgtype = ((Integer)queue.firstElement()).intValue();
      queue.removeElementAt(0);
      byte[] data;

      System.err.println("c50 " + msgtype);

      switch (msgtype) {
         case -1:
            running = false;
            break;
         case 1:
            data = (byte[])queue.firstElement();
            queue.removeElementAt(0);
            control.set_data(data);
            control.set_size(data.length);
            break;
         case 2:
            control.set_data(null);
            control.set_size(0);
            break;
         case 3:
            data = (byte[])queue.firstElement();
            queue.removeElementAt(0);
            rec.set_data(data);
            rec.set_size(data.length);
            break;
         case 4:
            rec.set_data(null);
            rec.set_size(0);
            break;
      }

   }
}
System.err.println("c60");
if (msgtype == 3 || msgtype == 4) {
   System.out.println("client: Got message");
   client_env.rep_process_message(control, rec,
                                  processMsg);
```

```
            }
        }
        System.err.println("c70");
        Db db = new Db(client_env, 0);
        db.open(null, "x.db", null, Db.DB_BTREE, 0, 0);
        Dbt data = new Dbt();
        System.err.println("c80");
        db.get(null, new Dbt("Hello".getBytes()), data, 0);
        System.err.println("c90");
        System.out.println("Hello " + new String(data.get_data(), data.get_offset(), data.get_size()));
        System.err.println("c95");
        client_env.close(0);
    }
    catch (Exception e) {
        System.err.println("client exception: " + e);
    }
}

// Implements DbTransport
public int send(DbEnv env, Dbt control, Dbt rec, int flags, int envid)
    throws DbException
{
    System.out.println("Send to " + envid);
    if (envid == 1) {
        System.err.println("Unexpected envid = " + envid);
        return 0;
    }

    int nbytes = 0;

    synchronized (queue) {
        System.out.println("Sending message");
        byte[] data = control.get_data();
        if (data != null && data.length > 0) {
            queue.addElement(new Integer(1));
            nbytes += data.length;
            byte[] newdata = new byte[data.length];
            System.arraycopy(data, 0, newdata, 0, data.length);
            queue.addElement(newdata);
        }
        else
        {
            queue.addElement(new Integer(2));
        }

        data = rec.get_data();
        if (data != null && data.length > 0) {
            queue.addElement(new Integer(3));
```

```
            nbytes += data.length;
            byte[] newdata = new byte[data.length];
            System.arraycopy(data, 0, newdata, 0, data.length);
            queue.addElement(newdata);
        }
        else
        {
            queue.addElement(new Integer(4));
        }
        System.out.println("MASTER: sent message");
    }
    return 0;
}

public void sleepShort()
{
    try {
        sleep(100);
    }
    catch (InterruptedException ie)
    {
    }
}

public void send_terminator()
{
    synchronized (queue) {
        queue.addElement(new Integer(-1));
    }
}

public void master()
{
    try {
        master_env = new DbEnv(0);
        master_env.set_rep_transport(2, this);
        master_env.open(MASTER_ENVDIR, Db.DB_CREATE | Db.DB_INIT_MPOOL, 0644);
        System.err.println("10");
        Dbt myid = new Dbt("client01".getBytes());
        master_env.rep_start(myid, Db.DB_REP_MASTER);
        System.err.println("10");
        Db db = new Db(master_env, 0);
        System.err.println("20");
        db.open(null, "x.db", null, Db.DB_BTREE, Db.DB_CREATE, 0644);
        System.err.println("30");
        db.put(null, new Dbt("Hello".getBytes()),
              new Dbt("world".getBytes()), 0);
        System.err.println("40");
```

```
            //DbEnv.RepElectResult electionResult = new DbEnv.RepElectResult();
            //master_env.rep_elect(2, 2, 3, 4, electionResult);
            db.close(0);
            System.err.println("50");
            master_env.close(0);
            send_terminator();
        }
        catch (Exception e) {
            System.err.println("client exception: " + e);
        }
    }

    public static void main(String[] args)
    {
        // The test should only take a few milliseconds.
        // give it 10 seconds before bailing out.
        TimelimitThread t = new TimelimitThread(1000*10);
        t.start();

        try {
            mkdir(CLIENT_ENVDIR);
            mkdir(MASTER_ENVDIR);

            TestReplication rep = new TestReplication();

            // Run the client as a seperate thread.
            rep.start();

            // Run the master.
            rep.master();

            // Wait for the master to finish.
            rep.join();
        }
        catch (Exception e)
        {
            System.err.println("Exception: " + e);
        }
        t.finished();
    }

}

class TimelimitThread extends Thread
{
    long nmillis;
    boolean finished = false;
```

```
  TimelimitThread(long nmillis)
  {
     this.nmillis = nmillis;
  }

  public void finished()
  {
     finished = true;
  }

  public void run()
  {
     long targetTime = System.currentTimeMillis() + nmillis;
     long curTime;

     while (!finished &&
           ((curTime = System.currentTimeMillis()) < targetTime)) {
        long diff = targetTime - curTime;
        if (diff > 100)
           diff = 100;
        try {
           sleep(diff);
        }
        catch (InterruptedException ie) {
        }
     }
     System.err.println("");
     System.exit(1);
  }
}
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*
* $Id: TestSimpleAccess.cpp,v 1.7 2004/01/28 03:36:33 bostic Exp $
*/

/*
* Do some regression tests for constructors.
* Run normally (without arguments) it is a simple regression test.
* Run with a numeric argument, it repeats the regression a number
* of times, to try to determine if there are memory leaks.
*/
```

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1.274 sed 4.1.5 :8.el5

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1.277 sendmail 8.13.8 :10.el5_11

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1.282 shadow-utils 4.0.17 :2006-07-10 Tomasz K&#65533;oczko

1.282.1 Available under license :

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1.283 shared-mime-info 0.19 :5.el5

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1.284 slang 2.0.6 :4.el5

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1.285 startup-notification 0.8 :4.1

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1.286 strace 4.5.18 :18.el5

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1.287 stunnel 4.15 :2.el5.1

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1.293 system-config-securitylevel 1.6.29.1 :6.el5

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1.297 tcp_wrappers 7.6 :40.7.el5

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jUDnyzmosOudM/iFlv6YfyR820aNvNNI+AdtgWYRPVHocVNOrZcmu7IADO8hlU//
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0JsaB8crR3M=
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1.298 tcpdump 3.9.4 :15.el5

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1.299 telnet 0.17 :41.el5

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#ifndef __AUTH__
```

```
#define __AUTH__

#define AUTH_REJECT 0 /* Rejected */
#define AUTH_UNKNOWN 1 /* We don't know who he is, but he's okay */
#define AUTH_OTHER 2 /* We know him, but not his name */
#define AUTH_USER 3 /* We know he name */
#define AUTH_VALID 4 /* We know him, and he needs no password */

typedef struct XauthP {
 int type;
 int way;
 int (*init) __P((struct XauthP *, int));
 int (*send) __P((struct XauthP *));
 void (*is) __P((struct XauthP *, unsigned char *, int));
 void (*reply) __P((struct XauthP *, unsigned char *, int));
 int (*status) __P((struct XauthP *, char *, int));
 void (*printsub) __P((unsigned char *, int, unsigned char *, int));
} Authenticator;

#include "auth-proto.h"

extern int auth_debug_mode;
#endif
```

1.300 termcap 5.5 :1.20060701.1

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1.301 texinfo 4.8 :14.el5

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1.303 time 1.7 :27.2.2

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1.304 tix 8.4.0 :11.fc6

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1.305 tk 8.4.13 :5.el5_1.1

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1.306 tmpwatch 2.9.7 :1.1.el5.5

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# used to perform the regular file license text changes that are required by Pegasus.
#
# Includes targets to replace license text each year.
#
# The functions in this make file MAY NOT be portable to other Operating systems
```

```
# than Linux since its usage is limited and based on the bash shell syntax.
# Usage. See each target.
# Note that right now this make file can be used in conjuction with the script
# licensechange to change the majority of licenes in a single operation.

MAKEFILELIST="*Makefile Makefile.* *.mak BuildMakefile Makefile* Makefile*.*

licenseupdate:
 @ - bash $(ROOT)/mak/licensechange

# create the license for make files corresponding to the license for .cpp.
# Prepends # to each line of the license.
create-make-license:
 sed 's_//_#//_' $(PEGASUS_ROOT)/doc/license.txt >$(PEGASUS_ROOT)/doc/license.mak.txt

# create the license for lexfiles files corresponding to the license for .cpp.
# Surrounds the existing license with /& */ comments because Lex cannot handle the
# // comments at the beginning of the .l file
# This script prepends the first line with /* and postpends the last line with */
create-lex-license:
 cp $(PEGASUS_ROOT)/doc/license.txt $(PEGASUS_ROOT)/doc/tmp1 | sed -e '1 s_//_/*//_' -e '$$ s_/*$$_&*/_'
>$(PEGASUS_ROOT)/doc/license.lex.txt

# Strip the license text from each file in the current directory
# removes the license text (all lines starting with the line containing
# //% and ending with the line  with "//="
strip-license:
 mu strip //% //= *.h *.cpp
 mu strip \#//% \#//= $(MAKEFILELIST)

# Prepend the license file to each file in the current directory
# used on any file with comments that begin with //
prepend-license:
 mu prepend $(ROOT)/doc/license.txt *.h *.cpp
 mu prepend $(ROOT)/doc/license.mak.txt $(MAKEFILELIST)

# Update the license for a single file. Can be used on any file
# that requires comments beginning with //.  This will either replace
# existing license or install new license text
fix-code-license:
 mu strip //% //= $(FILENAME)
 mu prepend $(PEGASUS_ROOT)/doc/license.txt $(FILENAME)

# Update the license text for a single file using the makefile license
# Can be used on any file that requires comments beginning with #.
# Will either replace or install new license text.
fix-make-license:
 mu strip \#//% \#//= $(FILENAME)
```

```
 mu prepend $(PEGASUS_ROOT)/doc/license.mak.txt $(FILENAME)

# Update the license text for a single file using the makefile license
# Can be used on any file that requires comments beginning with #.
# Will either replace or install new license text.
fix-lex-license:
 mu strip \#//% \#//= $(FILENAME)
 mu prepend $(PEGASUS_ROOT)/doc/license.lex.txt $(FILENAME)

# Show files with old license
# Update with year of previous license (i.e. 2005)
show-old-licenses:
 grep -r \/%2005\/

# Show Files with NO license
nolicense:
 grep -r -L %2006 .| grep -v CVS |grep -v ".log" | grep -v ".master" | grep -v ".cert" | grep -v ".xml" | grep -v ".key" |
grep -v Unsupported | grep -v InterfaceArchive | grep -v Schema
```

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Version 2, June 1991

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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.]

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1.315 vim 7.0.109 :7.2.el5

1.316 vixie-cron 4.1 :81.el5

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1.317 vsftpd 2.0.5 :28.el5

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1.322 xinetd 2.3.14 :20.el5_10

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1.323 xorg-x11-filesystem 7.1 :2.fc6

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Name: xorg-x11-filesystem
Version: 7.1
Release: 2%{?dist}
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Group: System Environment/Base
URL: http://www.redhat.com
BuildRoot: %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u} -n)
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1.324 xorg-x11-server-utils 7.1 :5.el5_6.2

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1.325 xorg-x11-xauth 1.0.1 :2.1

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1.326 xorg-x11-xinit 1.0.2 :15.el5

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1.328 yp-tools 2.9 :2.el5

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1.329 ypbind 1.19 :12.el5_6.1

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#
Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it

```
# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
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1.330 zip 2.31 :2.el5

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1.331 zlib 1.2.3 :7.el5

1.331.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.3, July 18th, 2005

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  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
  (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/
```

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