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1.2 collectd 5.11.0

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1.4 python-pyrfc3339 1.1

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1.5 python-zope-component 4.6.2

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1.7 python-acme 0.40.1

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1.8 mod-authnz-external 3.3.3

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* Based on code from The Apache Group

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1.9 dpkg 1.19.7

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clarify this fact.

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

 Author: Julio Merino <jmmv@users.sourceforge.net>

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

<!-- Id -->

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

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
   <xsl:text>
</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '
')"/>
   <xsl:if test="translate($rest, '	 ', '')">

```
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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     License, v. 2.0. If a copy of the MPL was not distributed with this
     file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

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

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1.11 glibc 2.31

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1.15 curl 7.71.1

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==============

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the other libraries use and what possible dilemmas linking and mixing them all
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1.16 openssh 7.5p1

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[Tatu continues]

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[The licence continues]

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```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.17 libnftnl 1.1.7

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```
/*----------------------------------------------------------------
* fips/kdf/fips_kdf_srtp.c - SRTP KDF vector tests
*
* March 2015
*
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*----------------------------------------------------------------
*/
```

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```
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* kdf/kdf.h - Key Derivation Function header file
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```
/*----------------------------------------------------------------
* fips/rsa/fips_rsa2gtest.c - RSA2 Key Generation algorithm processing
*
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```
/* ----------------------------------------------------------------
* crypto/aes/asm/aes_cbc-octeon.c - Cavium Octeon specific hardware assist
```

* functionality that is to reside within the FIPS canister.
*
* January 2013
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/* --
* crypto/sha/asm/sha512-octeon.c - Cavium Octeon specific hardware assist
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/*--
* fips/kdf/fips_kdf_tls.c - TLS KDF vector tests
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* March 2015
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```
/* ------------------------------------------------------------------
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/objects/obj_dat.h
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```
/* ---------------------------------------------------------------
* crypto/aes/asm/aes_gcm-octeon.c - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
*
* January 2013
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/*---------------------------------------------------------------------
* fips/kdf/fips_kwvs.c - Key Wrap vector tests
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```
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/**
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/aes/aes_x86core.c
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/*--
* include/cavium/cvmx-aes.h - Cavium Octeon specific hardware assist
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*
* February 2013
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/bn/asm/sparcv9-mont.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/modes/asm/ghash-sparcv9.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/sha/asm/sha1-586.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/bn/asm/x86_64-gf2m.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/bn/asm/x86_64-mont.pl

* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/aes/asm/aes-586.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/aes/asm/aes-mips.pl
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/fips/hmac/fips_hmac_selftest.c
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```
#!/usr/bin/env perl

# ====================================================================
# Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
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# details see http://www.openssl.org/~appro/cryptogams/.
# ====================================================================

# I let hardware handle unaligned input(*), except on page boundaries
# (see below for details). Otherwise straightforward implementation
# with X vector in register bank. The module is big-endian [which is
# not big deal as there're no little-endian targets left around].
#
# (*) this means that this module is inappropriate for PPC403? Does
#     anybody know if pre-POWER3 can sustain unaligned load?

#    -m64 -m32
# ----------------------------------
# PPC970,gcc-4.0.0 +76% +59%
# Power6,xlc-7  +68% +33%

$flavour = shift;

if ($flavour =~ /64/) {
 $SIZE_T =8;
 $LRSAVE =2*$SIZE_T;
 $UCMP ="cmpld";
 $STU ="stdu";
 $POP ="ld";
 $PUSH ="std";
} elsif ($flavour =~ /32/) {
 $SIZE_T =4;
 $LRSAVE =$SIZE_T;
 $UCMP ="cmplw";
 $STU ="stwu";
 $POP ="lwz";
 $PUSH ="stw";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*[\/\\])[^\/\\]+$/; $dir=$1;
( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="${dir}../../perlasm/ppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";
```

```
open STDOUT,"| $^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=24*$SIZE_T+64;
$LOCALS=6*$SIZE_T;

$K  ="r0";
$sp ="r1";
$toc="r2";
$ctx="r3";
$inp="r4";
$num="r5";
$t0 ="r15";
$t1 ="r6";

$A  ="r7";
$B  ="r8";
$C  ="r9";
$D  ="r10";
$E  ="r11";
$T  ="r12";

@V=($A,$B,$C,$D,$E,$T);
@X=("r16","r17","r18","r19","r20","r21","r22","r23",
   "r24","r25","r26","r27","r28","r29","r30","r31");

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___ if ($i==0);
 lwz @X[$i],`$i*4`($inp)
___
$code.=<<___ if ($i<15);
 lwz @X[$j],`$j*4`($inp)
 add $f,$K,$e
 rotlwi $e,$a,5
 add $f,$f,@X[$i]
 and $t0,$c,$b
 add $f,$f,$e
 andc $t1,$d,$b
 rotlwi $b,$b,30
 or $t0,$t0,$t1
 add $f,$f,$t0
___
$code.=<<___ if ($i>=15);
 add $f,$K,$e
 rotlwi $e,$a,5
 xor @X[$j%16],@X[$j%16],@X[($j+2)%16]
```

```
 add $f,$f,@X[$i%16]
 and $t0,$c,$b
 xor @X[$j%16],@X[$j%16],@X[($j+8)%16]
 add $f,$f,$e
 andc $t1,$d,$b
 rotlwi $b,$b,30
 or $t0,$t0,$t1
 xor @X[$j%16],@X[$j%16],@X[($j+13)%16]
 add $f,$f,$t0
 rotlwi @X[$j%16],@X[$j%16],1
___
}

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___ if ($i<79);
 add $f,$K,$e
 rotlwi $e,$a,5
 xor @X[$j%16],@X[$j%16],@X[($j+2)%16]
 add $f,$f,@X[$i%16]
 xor $t0,$b,$c
 xor @X[$j%16],@X[$j%16],@X[($j+8)%16]
 add $f,$f,$e
 rotlwi $b,$b,30
 xor $t0,$t0,$d
 xor @X[$j%16],@X[$j%16],@X[($j+13)%16]
 add $f,$f,$t0
 rotlwi @X[$j%16],@X[$j%16],1
___
$code.=<<___ if ($i==79);
 add $f,$K,$e
 rotlwi $e,$a,5
 lwz r16,0($ctx)
 add $f,$f,@X[$i%16]
 xor $t0,$b,$c
 lwz r17,4($ctx)
 add $f,$f,$e
 rotlwi $b,$b,30
 lwz r18,8($ctx)
 xor $t0,$t0,$d
 lwz r19,12($ctx)
 add $f,$f,$t0
 lwz r20,16($ctx)
___
}

sub BODY_40_59 {
```

```
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___;
 add $f,$K,$e
 rotlwi $e,$a,5
 xor @X[$j%16],@X[$j%16],@X[($j+2)%16]
 add $f,$f,@X[$i%16]
 and $t0,$b,$c
 xor @X[$j%16],@X[$j%16],@X[($j+8)%16]
 add $f,$f,$e
 or $t1,$b,$c
 rotlwi $b,$b,30
 xor @X[$j%16],@X[$j%16],@X[($j+13)%16]
 and $t1,$t1,$d
 or $t0,$t0,$t1
 rotlwi @X[$j%16],@X[$j%16],1
 add $f,$f,$t0
___
}

$code=<<___;
.machine "any"
.text

.globl .sha1_block_data_order
.align 4
.sha1_block_data_order:
 $STU $sp,-$FRAME($sp)
 mflr r0
 $PUSH r15,`$FRAME-$SIZE_T*17`($sp)
 $PUSH r16,`$FRAME-$SIZE_T*16`($sp)
 $PUSH r17,`$FRAME-$SIZE_T*15`($sp)
 $PUSH r18,`$FRAME-$SIZE_T*14`($sp)
 $PUSH r19,`$FRAME-$SIZE_T*13`($sp)
 $PUSH r20,`$FRAME-$SIZE_T*12`($sp)
 $PUSH r21,`$FRAME-$SIZE_T*11`($sp)
 $PUSH r22,`$FRAME-$SIZE_T*10`($sp)
 $PUSH r23,`$FRAME-$SIZE_T*9`($sp)
 $PUSH r24,`$FRAME-$SIZE_T*8`($sp)
 $PUSH r25,`$FRAME-$SIZE_T*7`($sp)
 $PUSH r26,`$FRAME-$SIZE_T*6`($sp)
 $PUSH r27,`$FRAME-$SIZE_T*5`($sp)
 $PUSH r28,`$FRAME-$SIZE_T*4`($sp)
 $PUSH r29,`$FRAME-$SIZE_T*3`($sp)
 $PUSH r30,`$FRAME-$SIZE_T*2`($sp)
 $PUSH r31,`$FRAME-$SIZE_T*1`($sp)
 $PUSH r0,`$FRAME+$LRSAVE`($sp)
 lwz $A,0($ctx)
```

```
 lwz $B,4($ctx)
 lwz $C,8($ctx)
 lwz $D,12($ctx)
 lwz $E,16($ctx)
 andi. r0,$inp,3
 bne Lunaligned
Laligned:
 mtctr $num
 bl Lsha1_block_private
 b Ldone

; PowerPC specification allows an implementation to be ill-behaved
; upon unaligned access which crosses page boundary. "Better safe
; than sorry" principle makes me treat it specially. But I don't
; look for particular offending word, but rather for 64-byte input
; block which crosses the boundary. Once found that block is aligned
; and hashed separately...
.align 4
Lunaligned:
 subfic $t1,$inp,4096
 andi. $t1,$t1,4095 ; distance to closest page boundary
 srwi. $t1,$t1,6 ; t1/=64
 beq Lcross_page
 $UCMP $num,$t1
 ble- Laligned ; didn't cross the page boundary
 mtctr $t1
 subfc $num,$t1,$num
 bl Lsha1_block_private
Lcross_page:
 li $t1,16
 mtctr $t1
 addi r20,$sp,$LOCALS ; spot within the frame
Lmemcpy:
 lbz r16,0($inp)
 lbz r17,1($inp)
 lbz r18,2($inp)
 lbz r19,3($inp)
 addi $inp,$inp,4
 stb r16,0(r20)
 stb r17,1(r20)
 stb r18,2(r20)
 stb r19,3(r20)
 addi r20,r20,4
 bdnz Lmemcpy

 $PUSH $inp,`$FRAME-$SIZE_T*18`($sp)
 li $t1,1
 addi $inp,$sp,$LOCALS
```

```
 mtctr $t1
 bl Lsha1_block_private
 $POP $inp,`$FRAME-$SIZE_T*18`($sp)
 addic. $num,$num,-1
 bne- Lunaligned

Ldone:
 $POP r0,`$FRAME+$LRSAVE`($sp)
 $POP r15,`$FRAME-$SIZE_T*17`($sp)
 $POP r16,`$FRAME-$SIZE_T*16`($sp)
 $POP r17,`$FRAME-$SIZE_T*15`($sp)
 $POP r18,`$FRAME-$SIZE_T*14`($sp)
 $POP r19,`$FRAME-$SIZE_T*13`($sp)
 $POP r20,`$FRAME-$SIZE_T*12`($sp)
 $POP r21,`$FRAME-$SIZE_T*11`($sp)
 $POP r22,`$FRAME-$SIZE_T*10`($sp)
 $POP r23,`$FRAME-$SIZE_T*9`($sp)
 $POP r24,`$FRAME-$SIZE_T*8`($sp)
 $POP r25,`$FRAME-$SIZE_T*7`($sp)
 $POP r26,`$FRAME-$SIZE_T*6`($sp)
 $POP r27,`$FRAME-$SIZE_T*5`($sp)
 $POP r28,`$FRAME-$SIZE_T*4`($sp)
 $POP r29,`$FRAME-$SIZE_T*3`($sp)
 $POP r30,`$FRAME-$SIZE_T*2`($sp)
 $POP r31,`$FRAME-$SIZE_T*1`($sp)
 mtlr r0
 addi $sp,$sp,$FRAME
 blr
 .long 0
 .byte 0,12,4,1,0x80,18,3,0
 .long 0
___

# This is private block function, which uses tailored calling
# interface, namely upon entry SHA_CTX is pre-loaded to given
# registers and counter register contains amount of chunks to
# digest...
$code.=<<___;
.align 4
Lsha1_block_private:
___
$code.=<<___; # load K_00_19
 lis $K,0x5a82
 ori $K,$K,0x7999
___
for($i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<___; # load K_20_39
 lis $K,0x6ed9
```

```
 ori $K,$K,0xeba1
___
for(;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___; # load K_40_59
 lis $K,0x8f1b
 ori $K,$K,0xbcdc
___
for(;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<___; # load K_60_79
 lis $K,0xca62
 ori $K,$K,0xc1d6
___
for(;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<___;
 add r16,r16,$E
 add r17,r17,$T
 add r18,r18,$A
 add r19,r19,$B
 add r20,r20,$C
 stw r16,0($ctx)
 mr $A,r16
 stw r17,4($ctx)
 mr $B,r17
 stw r18,8($ctx)
 mr $C,r18
 stw r19,12($ctx)
 mr $D,r19
 stw r20,16($ctx)
 mr $E,r20
 addi $inp,$inp,`16*4`
 bdnz- Lsha1_block_private
 blr
 .long 0
 .byte 0,12,0x14,0,0,0,0,0
___
$code.=<<___;
.asciz "SHA1 block transform for PPC, CRYPTOGAMS by <appro\@fy.chalmers.se>"
___

$code =~ s/\`([^\`]*)\`/eval $1/gem;
print $code;
close STDOUT;
```

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*
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```

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* crypto/bn/asm/modexp-octeon.c - Cavium Octeon specific hardware assist
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*
* January 2013
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* fips/kdf/fips_kdf_ikev2.c - IKEV2 KDF vector tests
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* fips/kdf/fips_kdf_802_11i.c - 802_11i KDF vector tests
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/*--
* kdf/kdf_srtp.c - Key Derivation Function for SRTP
*
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/* ---
* crypto/aes/asm/aes-octeon.c - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/ecdsa/ecs_locl.h
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-

6.2a.201703281752/crypto/ecdsa/ecdsa.h
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```
/*
* Utilities for constant-time cryptography.
*
* Author: Emilia Kasper (emilia@openssl.org)
* Based on previous work by Bodo Moeller, Emilia Kasper, Adam Langley
* (Google).
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/*.c>, <crypto/*/*.c>, <ssl/*.c>, <apps/*.c>)
            When this option is NOT specified, the filelist is taken from
            the commandline instead. Here, wildcards may be embedded. (Be
            sure to escape those to prevent the shell from expanding them
            for you when you wish mkerr.pl to do so instead.)
            Default: take file list to scan from the command line.

 -reindex      Discard the numeric values previously assigned to the error
            and function codes as extracted from the scanned header files;
            instead renumber all of them starting from 100. (Note that
            the numbers assigned through 'R' records in the config file
            remain intact.)
            Default: keep previously assigned numbers. (You are warned
                  when collisions are detected.)

 -nostatic     Generates a different source code, where these additional
            functions are generated for each library specified in the
            config file:
```

```
            void ERR_load_<LIB>_strings(void);
            void ERR_unload_<LIB>_strings(void);
            void ERR_<LIB>_error(int f, int r, char *fn, int ln);
            #define <LIB>err(f,r) ERR_<LIB>_error(f,r,__FILE__,__LINE__)
          while the code facilitates the use of these in an environment
          where the error support routines are dynamically loaded at
          runtime.
          Default: 'static' code generation.

-staticloader Prefix generated functions with the 'static' scope modifier.
          Default: don't write any scope modifier prefix.

-write      Actually (over)write the generated code to the header and C
          source files as assigned to each library through the config
          file.
          Default: don't write.

-help / -h / -? / --help          Show this help text.

...       Additional arguments are added to the file list to scan,
          assuming '-recurse' was NOT specified on the command line.

EOF
 exit 1;
} else {
 last;
}
}

if($recurse) {
 @source = ( <crypto/*.c>, <crypto/*/*.c>, <ssl/*.c>,
   <fips/*.c>, <fips/*/*.c>);
} else {
 @source = @ARGV;
}

# Read in the config file

open(IN, "<$config") || die "Can't open config file $config";

# Parse config file

while(<IN>)
{
 if(/^L\s+(\S+)\s+(\S+)\s+(\S+)/) {
  $hinc{$1} = $2;
  $libinc{$2} = $1;
  $cskip{$3} = $1;
```

```
 if($3 ne "NONE") {
  $csrc{$1} = $3;
  $fmax{$1} = 100;
  $rmax{$1} = 100;
  $fassigned{$1} = ":";
  $rassigned{$1} = ":";
  $fnew{$1} = 0;
  $rnew{$1} = 0;
 }
 } elsif (/^F\s+(\S+)/) {
 # Add extra function with $1
 } elsif (/^R\s+(\S+)\s+(\S+)/) {
  $rextra{$1} = $2;
  $rcodes{$1} = $2;
 }
}

close IN;

# Scan each header file in turn and make a list of error codes
# and function names

while (($hdr, $lib) = each %libinc)
{
 next if($hdr eq "NONE");
 print STDERR "Scanning header file $hdr\n" if $debug;
 my $line = "", $def= "", $linenr = 0, $gotfile = 0;
 if (open(IN, "<$hdr")) {
    $gotfile = 1;
    while(<IN>) {
 $linenr++;
  print STDERR "line: $linenr\r" if $debug;

  last if(/BEGIN\s+ERROR\s+CODES/);
  if ($line ne '') {
     $_ = $line . $_;
     $line = '';
  }

  if (/\\$/) {
     $line = $_;
     next;
  }

  if(/\/\*/) {
     if (not /\*\//) {  # multiline comment...
  $line = $_;  # ... just accumulate
  next;
```

```
    } else {
 s/\/\*.*?\*\///gs; # wipe it
    }
}

if ($cpp) {
    $cpp++ if /^#\s*if/;
    $cpp-- if /^#\s*endif/;
    next;
}
$cpp = 1 if /^#.*ifdef.*cplusplus/;  # skip "C" declaration

next if (/^\#/);                    # skip preprocessor directives

s/{[^{}]*}//gs;                      # ignore {} blocks

if (/\{|\/\*/) { # Add a } so editor works...
    $line = $_;
} else {
    $def .= $_;
}
   }
}

print STDERR "                                \r" if $debug;
     $defnr = 0;
# Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+\([\w,\s]+\)//gs;
foreach (split /;/, $def) {
   $defnr++;
   print STDERR "def: $defnr\r" if $debug;

   # The goal is to collect function names from function declarations.

   s/^[\n\s]*//g;
   s/[\n\s]*$//g;

   # Skip over recognized non-function declarations
   next if(/typedef\W/ or /DECLARE_STACK_OF/ or /TYPEDEF_.*_OF/);

   # Remove STACK_OF(foo)
   s/STACK_OF\(\w+\)/void/;

   # Reduce argument lists to empty ()
   # fold round brackets recursively: (t(*v)(t),t) -> (t{}{},t) -> {}
   while(/\(.*\)/s) {
s/\([^\(\)]+\)/\{\}/gs;
s/\(\s*\*\s*(\w+)\s*\{\}\s*\)/$1/gs; #(*f{}) -> f
```

```
    }
    # pretend as we didn't use curly braces: {} -> ()
    s/\{\}/\(\)/gs;

    if (/(\w+)\s*\(\).*/s) { # first token prior [first] () is
  my $name = $1;  # a function name!
  $name =~ tr/[a-z]/[A-Z]/;
  $ftrans{$name} = $1;
    } elsif (/[\(\)]/ and not (/=/)) {
  print STDERR "Header $hdr: cannot parse: $_;\n";
    }
}

print STDERR "                                \r" if $debug;

next if $reindex;

# Scan function and reason codes and store them: keep a note of the
# maximum code used.

if ($gotfile) {
  while(<IN>) {
  if(/^\#define\s+(\S+)\s+(\S+)/) {
   $name = $1;
   $code = $2;
   next if $name =~ /^${lib}err/;
   unless($name =~ /^${lib}_([RF])_(\w+)$/) {
    print STDERR "Invalid error code $name\n";
    next;
   }
   if($1 eq "R") {
    $rcodes{$name} = $code;
    if ($rassigned{$lib} =~ /:$code:/) {
     print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
     ++$errcount;
    }
    $rassigned{$lib} .= "$code:";
    if(!(exists $rextra{$name}) &&
      ($code > $rmax{$lib}) ) {
     $rmax{$lib} = $code;
    }
   } else {
    if ($fassigned{$lib} =~ /:$code:/) {
     print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n";
     ++$errcount;
    }
    $fassigned{$lib} .= "$code:";
    if($code > $fmax{$lib}) {
```

```
    $fmax{$lib} = $code;
   }
   $fcodes{$name} = $code;
  }
 }
  }
}

if ($debug) {
 if (defined($fmax{$lib})) {
  print STDERR "Max function code fmax" . "{" . "$lib" . "} = $fmax{$lib}\n";
  $fassigned{$lib} =~ m/^:(.*):$/;
  @fassigned = sort {$a <=> $b} split(":", $1);
  print STDERR "  @fassigned\n";
 }
 if (defined($rmax{$lib})) {
  print STDERR "Max reason code rmax" . "{" . "$lib" . "} = $rmax{$lib}\n";
  $rassigned{$lib} =~ m/^:(.*):$/;
  @rassigned = sort {$a <=> $b} split(":", $1);
  print STDERR "  @rassigned\n";
 }
}

 if ($lib eq "SSL") {
  if ($rmax{$lib} >= 1000) {
   print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
   print STDERR "!!        Any new alerts must be added to $config.\n";
   ++$errcount;
   print STDERR "\n";
  }
 }
 close IN;
}

# Scan each C source file and look for function and reason codes
# This is done by looking for strings that "look like" function or
# reason codes: basically anything consisting of all upper case and
# numerics which has _F_ or _R_ in it and which has the name of an
# error library at the start. This seems to work fine except for the
# oddly named structure BIO_F_CTX which needs to be ignored.
# If a code doesn't exist in list compiled from headers then mark it
# with the value "X" as a place holder to give it a value later.
# Store all function and reason codes found in %ufcodes and %urcodes
# so all those unreferenced can be printed out.


foreach $file (@source) {
 # Don't parse the error source file.
```

```
 next if exists $cskip{$file};
 print STDERR "File loaded: ".$file."\r" if $debug;
 open(IN, "<$file") || die "Can't open source file $file\n";
 while(<IN>) {
  # skip obsoleted source files entirely!
  last if(/^#error\s+obsolete/);

  if(/(([A-Z0-9]+)_F_([A-Z0-9_]+))/) {
   next unless exists $csrc{$2};
   next if($1 eq "BIO_F_BUFFER_CTX");
   $ufcodes{$1} = 1;
   if(!exists $fcodes{$1}) {
    $fcodes{$1} = "X";
    $fnew{$2}++;
   }
   $notrans{$1} = 1 unless exists $ftrans{$3};
   print STDERR "Function: $1\t= $fcodes{$1} (lib: $2, name: $3)\n" if $debug;
  }
  if(/(([A-Z0-9]+)_R_[A-Z0-9_]+)/) {
   next unless exists $csrc{$2};
   $urcodes{$1} = 1;
   if(!exists $rcodes{$1}) {
    $rcodes{$1} = "X";
    $rnew{$2}++;
   }
   print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
  }
 }
 close IN;
}
print STDERR "                              \n" if $debug;

# Now process each library in turn.

foreach $lib (keys %csrc)
{
 my $hfile = $hinc{$lib};
 my $cfile = $csrc{$lib};
 if(!$fnew{$lib} && !$rnew{$lib}) {
  print STDERR "$lib:\t\tNo new error codes\n";
  next unless $rebuild;
 } else {
  print STDERR "$lib:\t\t$fnew{$lib} New Functions,";
  print STDERR " $rnew{$lib} New Reasons.\n";
  next unless $dowrite;
 }

 # If we get here then we have some new error codes so we
```

```
# need to rebuild the header file and C file.

# Make a sorted list of error and reason codes for later use.

my @function = sort grep(/^${lib}_/,keys %fcodes);
my @reasons = sort grep(/^${lib}_/,keys %rcodes);

# Rewrite the header file

if (open(IN, "<$hfile")) {
    # Copy across the old file
    while(<IN>) {
 push @out, $_;
 last if (/BEGIN ERROR CODES/);
    }
    close IN;
} else {
    push @out,
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" *\n",
" */\n",
"\n",
"#ifndef HEADER_${lib}_ERR_H\n",
"#define HEADER_${lib}_ERR_H\n",
"\n",
"#ifdef  __cplusplus\n",
"extern \"C\" {\n",
"#endif\n",
"\n",
"/* BEGIN ERROR CODES */\n";
 }
 open (OUT, ">$hfile") || die "Can't Open File $hfile for writing\n";

 print OUT @out;
 undef @out;
 print OUT <<"EOF";
/* The following lines are auto generated by the script mkerr.pl. Any changes
* made after this point may be overwritten when the script is next run.
*/
EOF
 if($static) {
  print OUT <<"EOF";
${staticloader}void ERR_load_${lib}_strings(void);

EOF
 } else {
```

```
  print OUT <<"EOF";
${staticloader}void ERR_load_${lib}_strings(void);
${staticloader}void ERR_unload_${lib}_strings(void);
${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line);
#define ${lib}err(f,r) ERR_${lib}_error((f),(r),__FILE__,__LINE__)

EOF
 }
 print OUT <<"EOF";
/* Error codes for the $lib functions. */

/* Function codes. */
EOF

 foreach $i (@function) {
  $z=6-int(length($i)/8);
  if($fcodes{$i} eq "X") {
   $fassigned{$lib} =~ m/^:([^:]*):/;
   $findcode = $1;
   if (!defined($findcode)) {
    $findcode = $fmax{$lib};
   }
   while ($fassigned{$lib} =~ m/:$findcode:/) {
    $findcode++;
   }
   $fcodes{$i} = $findcode;
   $fassigned{$lib} .= "$findcode:";
   print STDERR "New Function code $i\n" if $debug;
  }
  printf OUT "#define $i%s $fcodes{$i}\n","\t" x $z;
 }

 print OUT "\n/* Reason codes. */\n";

 foreach $i (@reasons) {
  $z=6-int(length($i)/8);
  if($rcodes{$i} eq "X") {
   $rassigned{$lib} =~ m/^:([^:]*):/;
   $findcode = $1;
   if (!defined($findcode)) {
    $findcode = $rmax{$lib};
   }
   while ($rassigned{$lib} =~ m/:$findcode:/) {
    $findcode++;
   }
   $rcodes{$i} = $findcode;
   $rassigned{$lib} .= "$findcode:";
   print STDERR "New Reason code   $i\n" if $debug;
```

```
 }
 printf OUT "#define $i%s $rcodes{$i}\n","\t" x $z;
 }
 print OUT <<"EOF";

#ifdef  __cplusplus
}
#endif
#endif
EOF
 close OUT;

 # Rewrite the C source file containing the error details.

 # First, read any existing reason string definitions:
 my %err_reason_strings;
 if (open(IN,"<$cfile")) {
  while (<IN>) {
   if (/\b(${lib}_R_\w*)\b.*\"(.*)\"/) {
    $err_reason_strings{$1} = $2;
   }
   if (/\b${lib}_F_(\w*)\b.*\"(.*)\"/) {
    if (!exists $ftrans{$1} && ($1 ne $2)) {
     print STDERR "WARNING: Mismatched function string $2\n";
     $ftrans{$1} = $2;
    }
   }
  }
  close(IN);
 }


 my $hincf;
 if($static) {
  $hfile =~ /([^\/]+)$/;
  $hincf = "<${hprefix}$1>";
 } else {
  $hincf = "\"$hfile\"";
 }

 # If static we know the error code at compile time so use it
 # in error definitions.

 if ($static)
  {
  $pack_errcode = "ERR_LIB_${lib}";
  $load_errcode = "0";
  }
```

```
else
 {
 $pack_errcode = "0";
 $load_errcode = "ERR_LIB_${lib}";
 }


open (OUT,">$cfile") || die "Can't open $cfile for writing";

print OUT <<"EOF";
/* $cfile */
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/* NOTE: this file was auto generated by the mkerr.pl script: any changes
* made to it will be overwritten when the script next updates this file,
* only reason strings will be preserved.
*/

#include <stdio.h>
#include <openssl/err.h>
#include $hincf

/* BEGIN ERROR CODES */
#ifndef OPENSSL_NO_ERR

#define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
#define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

static ERR_STRING_DATA ${lib}_str_functs[]=
 {
EOF
 # Add each function code: if a function name is found then use it.
 foreach $i (@function) {
  my $fn;
  $i =~ /^${lib}_F_(\S+)$/;
  $fn = $1;
  if(exists $ftrans{$fn}) {
   $fn = $ftrans{$fn};
  }
#  print OUT "{ERR_PACK($pack_errcode,$i,0),\t\"$fn\"},\n";
  print OUT "{ERR_FUNC($i),\t\"$fn\"},\n";
 }
 print OUT <<"EOF";
{0,NULL}
```

```
 };

static ERR_STRING_DATA ${lib}_str_reasons[]=
 {
EOF
 # Add each reason code.
 foreach $i (@reasons) {
  my $rn;
  my $rstr = "ERR_REASON($i)";
  my $nspc = 0;
  if (exists $err_reason_strings{$i}) {
   $rn = $err_reason_strings{$i};
  } else {
   $i =~ /^${lib}_R_(\S+)$/;
   $rn = $1;
   $rn =~ tr/_[A-Z]/ [a-z]/;
  }
  $nspc = 40 - length($rstr) unless length($rstr) > 40;
  $nspc = " " x $nspc;
  print OUT "{${rstr}${nspc},\"$rn\"},\n";
 }
if($static) {
 print OUT <<"EOF";
{0,NULL}
 };

#endif

${staticloader}void ERR_load_${lib}_strings(void)
 {
#ifndef OPENSSL_NO_ERR

 if (ERR_func_error_string(${lib}_str_functs[0].error) == NULL)
  {
  ERR_load_strings($load_errcode,${lib}_str_functs);
  ERR_load_strings($load_errcode,${lib}_str_reasons);
  }
#endif
 }
EOF
} else {
 print OUT <<"EOF";
{0,NULL}
 };

#endif

#ifdef ${lib}_LIB_NAME
```

```
static ERR_STRING_DATA ${lib}_lib_name[]=
      {
{0 ,${lib}_LIB_NAME},
{0,NULL}
 };
#endif


static int ${lib}_lib_error_code=0;
static int ${lib}_error_init=1;

${staticloader}void ERR_load_${lib}_strings(void)
 {
 if (${lib}_lib_error_code == 0)
  ${lib}_lib_error_code=ERR_get_next_error_library();

 if (${lib}_error_init)
  {
  ${lib}_error_init=0;
#ifndef OPENSSL_NO_ERR
  ERR_load_strings(${lib}_lib_error_code,${lib}_str_functs);
  ERR_load_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif

#ifdef ${lib}_LIB_NAME
  ${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code,0,0);
  ERR_load_strings(0,${lib}_lib_name);
#endif
  }
 }

${staticloader}void ERR_unload_${lib}_strings(void)
 {
 if (${lib}_error_init == 0)
  {
#ifndef OPENSSL_NO_ERR
  ERR_unload_strings(${lib}_lib_error_code,${lib}_str_functs);
  ERR_unload_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif

#ifdef ${lib}_LIB_NAME
  ERR_unload_strings(0,${lib}_lib_name);
#endif
  ${lib}_error_init=1;
  }
 }

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
```

```
 {
 if (${lib}_lib_error_code == 0)
  ${lib}_lib_error_code=ERR_get_next_error_library();
 ERR_PUT_error(${lib}_lib_error_code,function,reason,file,line);
 }
EOF

}

 close OUT;
 undef %err_reason_strings;
}

if($debug && defined(%notrans)) {
 print STDERR "The following function codes were not translated:\n";
 foreach(sort keys %notrans)
 {
  print STDERR "$_\n";
 }
}

# Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
 push (@funref, $_) unless exists $ufcodes{$_};
}

foreach (keys %rcodes) {
 push (@runref, $_) unless exists $urcodes{$_};
}

if($debug && defined(@funref) ) {
 print STDERR "The following function codes were not referenced:\n";
 foreach(sort @funref)
 {
  print STDERR "$_\n";
 }
}

if($debug && defined(@runref) ) {
 print STDERR "The following reason codes were not referenced:\n";
 foreach(sort @runref)
 {
  print STDERR "$_\n";
 }
}

if($errcount) {
```

```
 print STDERR "There were errors, failing...\n\n";
 exit $errcount;
}
```

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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/util/mkerr.pl
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*/

#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTO_OFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTO_USER "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"
```

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/*----------------------------------------------------------------
* fips/kdf/fips_kdf_snmp.c - SNMP KDF vector tests
*
* March 2015
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*----------------------------------------------------------------
*/
```

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* crypto/sha/asm/sha256-octeon.c - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
*
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* crypto/aes/asm/aes_ccm-octeon.c - Cavium Octeon specific hardware assist
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-

6.2a.201703281752/crypto/cmac/cmac.h
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/cmac/cmac.c
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* kdf/kdf_snmp.c - Key Derivation Function for SNMP
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```
/* ---------------------------------------------------------------
* crypto/des/asm/ncbc_enc-octeon.c - Cavium Octeon specific hardware assist
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* functionality that is to reside within the FIPS canister.
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* crypto/des/asm/des_enc-octeon.c - Cavium Octeon specific hardware assist
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/fips/aes/fips_aesavs.c
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1.19 python-lxml 4.5.2

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1.20 diffutils 3.7

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1.21 xerces-c 3.2.3

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1.22 python-pycrypto 2.7a1

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

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2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

1.23 python-configargparse 1.2.3

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1.24 gzip 1.10

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1.25 python-werkzeug 1.0.1

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1.26 valgrind 3.15.0

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charset=UTF-8
vim600: encoding=UTF-8

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1.30 ncurses 6.2

1.30.1 Available under license :

Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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Upstream source https://invisible-island.net/ncurses/ncurses.html
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.31 python-future 0.18.2

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1.32 python-cffi 1.14.0

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1.33 python-defusedxml 0.6.0

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1.34 python 2.7.18

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.35 coreutils 8.32

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>>> freebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.37 python-httplib2 0.18.1

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1.38 strace 5.7

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

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1.39 python zope deferredimport 4.3.1

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1.41 python-idna 2.10

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Metadata-Version: 1.2
Name: idna
Version: 2.10
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)
==========

Support for the Internationalised Domain Names in Applications
(IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_.
This is the latest version of the protocol and is sometimes referred to as
“IDNA 2008”.

This library also provides support for Unicode Technical Standard 46,
`Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that
comes with the Python standard library, but only supports the
old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

.. code-block:: pycon

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

Packages

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
  :target: http://badge.fury.io/py/idna

Installation

To install this library, you can use pip:

.. code-block:: bash

  $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

  $ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage

For typical usage, the ``encode`` and ``decode`` functions will take a domain
name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

  # Python 3
  >>> import idna
  >>> idna.encode('.')
  b'xn--eckwd4c7c.xn--zckzah'
  >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
  .

You may use the codec encoding and decoding methods using the
``idna.codec`` module:

.. code-block:: pycon

  # Python 2

```
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel`` functions if necessary:

.. code-block:: pycon

```
# Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)
++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two

LATIN SMALL LETTER S (ss), whereas in the current IDNA specification this
conversion is not performed.

.. code-block:: pycon

   # Python 2
   >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
   'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare
cases where conversion from legacy labels to current labels must be performed
(i.e. IDNA implementations that pre-date 2008). For typical applications
that just need to convert labels, transitional processing is unlikely to be
beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are
mapped to their IDNA 2008 equivalents using the ``idna.compat`` module.
Simply substitute the ``import`` clause in your code to refer to the
new module name.

Exceptions

All errors raised during the conversion following the specification should
raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError``
when the error reflects an illegal combination of left-to-right and right-to-left
characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is
an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext``
when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO
or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for
performance. These tables are derived from computing against eligibility criteria
in the respective standards. These tables are computed using the command-line
script ``tools/idna-data``.

This tool will fetch relevant tables from the Unicode Consortium and perform the
required calculations to identify eligibility. It has three main modes:

* ``idna-data make-libdata``. Generates ``idnadata.py`` and ``uts46data.py``,

the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the ``idnadata.py`` and ``uts46data.py`` files.

* ``idna-data make-table``. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by `IANA <http://iana.org/>`_.

* ``idna-data U+0061``. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using ``idna-data -h``. Most notably, the ``--version`` argument allows the specification of the version of Unicode to use in computing the table data. For example, ``idna-data --version 9.0.0 make-libdata`` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
  :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7
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Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

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"""
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
"""

```
import io, sys
from setuptools import setup


def main():

  python_version = sys.version_info[:2]
  if python_version < (2,7):
     raise SystemExit("Sorry, Python 2.7 or newer required")

  package_data = {}
  exec(open('idna/package_data.py').read(), package_data)

  arguments = {
     'name': 'idna',
     'packages': ['idna'],
     'version': package_data['__version__'],
     'description': 'Internationalized Domain Names in Applications (IDNA)',
     'long_description': io.open("README.rst", encoding="UTF-8").read(),
     'author': 'Kim Davies',
     'author_email': 'kim@cynosure.com.au',
     'license': 'BSD-like',
     'url': 'https://github.com/kjd/idna',
     'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
```

```
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: 3.7',
        'Programming Language :: Python :: 3.8',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
  }

  setup(**arguments)

if __name__ == '__main__':
  main()
```

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1.42 zope-interface 5.1.0

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1.44 apr 1.7.0

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1.45 python-requests-toolbelt 0.9.1

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1.46 python-twisted 16.6.0

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1.47 pcre 8.44

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1.48 e2fsprogs 1.45.6

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# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM) -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.51 ifupdown 0.8.35

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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.53 python-webpy 0.36

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Metadata-Version: 1.0
Name: web.py
Version: 0.36
Summary: web.py: makes web apps
Home-page: http://webpy.org/
Author: Anand Chitipothu
Author-email: anandology@gmail.com
License: Public domain
Description: Think about the ideal way to write a web app. Write the code to make it happen.
Platform: any

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1.54 python-ipaddress 1.0.23

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1.55 sdparm 1.11

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1.56 kmod 27

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1.58 unzip 60

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- -

There are currently two explicit copyrights on portions of UnZip
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MacBinaryIII coding code (for the MacOS port).. These copyrights
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
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There are no known patents on any of the code in UnZip. Unisys
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that performs LZW encoding_, but the patent appears to exempt a stand-
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its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-

placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
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```
 * MoreFiles
 *
 * A collection of File Manager and related routines
 *
 * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
 * with significant code contributions by Nitin Ganatra
 * (Apple Macintosh Developer Technical Support Emeritus)
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```
  *  MacBinaryIII.h
  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
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  * ---------------------------------------------------------------------
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```

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```
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

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

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
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1.59 xmlsecurityforc++ 2.0.2

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1.60 libxslt 1.1.34

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1.63 opensaml 3.0.0

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1.68 sqlite 3.32.3

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1.70 python-hyperlink 19.0.0

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1.71 iputils s20190709

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1.79 python-pyparsing 2.4.7

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1.80 apr-util 1.6.1

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1.81 python-pystatsd 3.3

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1.82 python-josepy 1.3.0

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^L

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 To apply these terms, attach the following notices to the library.
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effectively convey the exclusion of warranty; and each file should
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  <one line to give the library's name and a brief idea of what it
does.>
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  Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

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

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

That's all there is to it!

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

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

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

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

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> > libraries under
> > GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> > -mike

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

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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>=20
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting

it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

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

yes. go for it. thanks++

-a

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

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

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

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

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

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])

by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

-a

1.86 sudo 1.9.1

1.86.1 Available under license :

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian

Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff

Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno

Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin

Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
erbnescu, Daniel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo: Stillman, Mark

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Todd C. Miller <Todd.Miller@sudo.ws>

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1.87 net-tools 1.60

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1.89 pam-ldap 186

1.89.1 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.

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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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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

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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.

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[PCRE]

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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[Misc C library code]

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 */
```

[zlib]

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

[edoc, syntax_tools]

```
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1.98 python-suds 0.4

1.98.1 Available under license :

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1.99 python-certifi 2020.4.5.2

1.99.1 Available under license :

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.100 python-chardet 3.0.4

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1.102 findutils 4.7.0

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1.105 vim 8.2.0821

1.106 pam 1.3.1

1.106.1 Available under license :

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1.107 python-pysnmp 4.4.12

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if mibBuilder.loadTexts: snmpUsmHmacSha2MIB.setDescription("Definitions of Object Identities needed for the use of HMAC-SHA2 Authentication Protocols by SNMP's User-based Security Model. Copyright (c) 2016 IETF Trust and the persons identified as authors of the code. All rights reserved. Redistribution and use in source and binary forms, with or without modification, is permitted pursuant to, and subject to the license terms contained in, the Simplified BSD License set forth in Section 4.c of the IETF Trust's Legal Provisions Relating to IETF Documents (http://trustee.ietf.org/license-info).")

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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/localkey.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/service.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/ASN1.py
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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/INET-ADDRESS-MIB.py
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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/cmdgen.py
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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/instances/__PYSNMP-USM-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/ntforg.py
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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/oneliner/cmdgen.py

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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/sync/__init__.py
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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncore/dgram/udp6.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc7860/auth/hmacsha2.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-USER-BASED-SM-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/priv/nopriv.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-MPD-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncore/dispatch.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/rfc1902.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/errind.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asynsock/dgram/unix.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1157.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/oneliner/ntforg.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/api/verdec.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/priv/des.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/cmdrsp.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMPv2-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/instances/__SNMP-FRAMEWORK-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1901.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/auth/base.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/eso/priv/aes192.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/mpmod/rfc2576.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-NOTIFICATION-MIB.py

* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/base.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/sockfix.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/RFC1158-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/twisted/cmdgen.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-FRAMEWORK-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/context.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMPv2-CONF.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/instances/__SNMP-USER-BASED-SM-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc3411.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/__init__.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/ntfrcv.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/eso/priv/aesbase.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/config.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-VIEW-BASED-ACM-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc3412.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/instances/__SNMP-MPD-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/cache.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-USM-AES-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-COMMUNITY-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1905.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1155.py
No license file was found, but licenses were detected in source scan.

Revision 4.4.12, released 2019-09-24

- Fixed broken SNMPv3 `msgFlag` initialization on authoritative SNMP
 engine ID discovery. This bug causes secure communication with peer
 SNMP engines to stall at SNMP engine ID discovery procedure.

Revision 4.4.11, released 2019-08-10

- Added SNMPv3 USM master and localized keys support to LCD configuration
- Improved initial and runtime USM debugging

- Fixed a bug in USM configuration which did not allow the same user names
 to be added under different security names

Revision 4.4.10, released 2019-07-29

- Reworked VACM access control function. Most important changes include:

 * Added subtree match negation support (vacmViewTreeFamilyType)
 * Added subtree family mask support (vacmViewTreeFamilyMask)
 * Added prefix content name matching support (vacmAccessContextMatch)
 * Added key VACM tables caching for better `isAccessAllowed` lookup
   performance

 One potential incompatibility may be caused by the `addContext()` call
 which now needs to be made explicitly during low-level VACM configuration
 rather than be a side effect of `addVacmAccess()` call.

- Rebased MIB importing code onto `importlib` because `imp` is long
 deprecated
- Received MIB objects resolution made more forgiving to errors, added
 optional `ignoreErrors` parameter to `ObjectType.resolveWithMib()` to
 control that behaviour.
- Fixed asyncore main loop to respect non-default timer resolution
- Fixed `.setTimerResolution()` behaviour of abstract main loop dispatcher
 to update call intervals of the existing periodic dispatcher jobs
- Fixed `var-bindings` initialization to prevent pyasn1 encoder failures
 with newer pyasn1 versions where `SequenceOf` type looses its default
 initializer.
- Fixed crash on uninitialized component serialization left out in
 SNMP v1 TRAP PDU to SNMPv2/3 TRAP PDU proxy translation routine.

Revision 4.4.9, released 2019-02-09

- Made MIB loader ignoring file and directory access errors
- Added missing SNMP PDU error classes and their handling in Command Responder
- Fixed crash on MIB load failure in case of directory access error
- Fixed socket transparency option (IPV6_TRANSPARENT) to make IPv6
 transparent operation functional

Revision 4.4.8, released 2018-12-30

- Fixed Pythonized MIB load (in the source form) - made sure to turn
 it into a code object prior to its execution

Revision 4.4.7, released 2018-12-29

- Copyright notice extended to the year 2019
- Exposed ASN.1 `Null` type through `rfc1902` module for convenience.
- Use `compile()` before `exec`'ing MIB modules to attach filename to
 the stack frames (ultimately shown in traceback/debugger)
- Fixed hlapi/v3arch transport target caching to ensure transport targets
 are different even if just timeout/retries options differ
- Fixed hlapi LCD configurator to include `contextName`. Prior to this fix
 sending SNMPv3 TRAP with non-default `contextName` would fail.
- Fixed possible duplicate key occurrence in the `OrderedDict` following
 a race condition
- Fixed undefined name references in `inet_pton`/`inet_ntop` substitute
 routines for IPv6 in `TRANSPORT-ADDRESS-MIB.py`

Revision 4.4.6, released 2018-09-13

- Improved package build and dependency tracking
- Fixed missing LICENSE from the tarball distribution
- Fixed `CommandGeneratorLcdConfigurator.unconfigure()` to fully clean up
 internal caches, otherwise repetitive attempts to configure the target
 would fail.
- Fix to tolerate possible duplicate enumerations in `Bits` and `Integer`
 SMI types.
- Fix to tolerate non-initialised entries in SNMP community table. Once a
 bad entry sneaked into the SNMP community table, all the subsequent
 SNMP v1/v2c operations failed. The fix ignores incomplete SNMP community
 table entries in the course of building indices.

Revision 4.4.5, released 2018-08-05

- Added PySnmpError.cause attribute holding parent exception tuple
- Fixed broken InetAddressType rendering caused by a pyasn1 regression
- Fixed typo in RFC1158 module
- Fixed possible infinite loop in GETBULK response PDU builder
- Fixed memory leak in the `config.delContext()` VACM management harness
- Fixed `Bits` class initialization when enumeration values are given
- Fixed crash caused by incoming SNMPv3 message requesting SNMPv1/v2c
 security model
- Fixed out-of-scope OIDs leaking at the end of SNMP table at hlapi
 `nextCmd` and `bulkCmd` calls when `lexicographicMode = False`

Revision 4.4.4, released 2018-01-03

- Copyright notice extended to the year 2018

- Fixed short local key expansion at 3DES key localization
 implementation.

Revision 4.4.3, released 2017-12-22

- Migrated references from SourceForge
- Added missing SHA2 support for Blumenthal key localization
- Fixed named bits handling at rfc1902.Bits
- Fixed missing SmiError exception class at pysnmp.proto.rfc1155
- Fixed SNMP v1->v2c PDU proxy -- error-status & error-index fields
 from v1 PDU get copied over to v2c PDU in addition to the exception
 sentinels being set

Revision 4.4.2, released 2017-11-11

- The pysnmp version being used gets exposed to the MIB modules
 via the `MibBuilder` instance
- The .setObjects() method of the SMI types now accepts
 `append=False` parameter to let the caller adding more
 than 255 elements over the course of multiple calls
- Added support for some more missing fields of SMIv2 MACRO types
- Example scripts rearranged in a way that IPv6 requirement is
 clearly encoded in the script's name
- Fixed SNMPv2-SMI.NotificationType to expose .set/getReference()
 instead of .set/getRevision() which should not be there in the
 first place
- Fixed non-implied-OID encoding in SNMP table indices
- Fixed inconsistent SNMPv3 discovery and retrying algorithm

Revision 4.4.1, released 2017-10-23

- HMAC-SHA-2 Authentication Protocols support added (RFC-7860)
- The pycryptodome dependency replaced with pycryptodomex as
 it is recommended by the upstream to avoid unwanted interference
 with PyCrypto package should it also be installed
- Sphinx theme changed to Alabaster in the documentation
- Minor adjustments towards pyasn1 0.4.x compatibility
- Fixed ObjectIdentifier-into-ObjectIdentity casting at
 rfc1902.ObjectType MIB resolution harness
- Fixed NetworkAddress object handling in SNMP table indices
- Fixed MIB lookup by module:object.indices MIB object with
 InetAddressIPv{4,6} objects being in the index
- Fixed non-translated PDU being retries at CommandGenerator what
 leads to wrong PDU version being sent and even a crash on
 incompatible PDU/SNMP message combination

Revision 4.3.10, released 2017-10-06

- Refactored partial SNMP message decoding to make it less dependent
 on unpublished pyasn1 API features.
- Fix to MibTableRow.setFromName() to keep the input parameter type when
 it propagates to the return value. Before this fix
 ObjectIdentity.prettyPrint() may crash when rendering malformed SNMP
 table indices.
- Fixed NotificationReceiver to include SNMPv1 TRAP Message community
 string into SNMPv2c/v3 TRAP PDU
- Fixed multiple bugs in SNMP table indices rendering, especially
 the InetAddressIPv6 type which was severely broken.
- Fixed crashing Bits.prettyPrint() implementation
- Fixed crashing Bits.clone()/subtype() implementation
- Fixed leaking exceptions bubbling up from the asyncio and Twisted adapters

Revision 4.3.9, released 2017-07-26

- Deprecated UsmUserData initializaton parameters removed
- Adapted to pyasn1 API changes introduced by release 0.3.1
- Fix to a crash happening on inbound SNMP message having non-initialized fields
- Fix to (persistent SNMP engine ID) file writing on Windows

Revision 4.3.8, released 2017-06-15

- Security fix to the bug introduced in 4.3.6: msgAuthoritativeEngineTime
 stopped changing over time and was returning the same timestamp (process
 start time). This fix makes it growing as it should.

Revision 4.3.7, released 2017-05-29
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* Fixed import error in legacy NotificationOriginator implementation

Revision 4.3.6, released 2017-05-28

- More instrumentation hooks added addressing security failures
 auditing needs.
- SNMP table indices correlation implemented within SMI framework.
 The opaque InetAddress type implemented. INET-ADDRESS-MIB included
 into the distribution.
- SNMP table indices resolution logic made more robust against
 malformed indices.

- Fixes to *lexicographicMode* option documentation to make it
 unambiguous.
- The `ErrorIndication` object is now derived from `Exception` so
 that it could be raised in exceptions.
- The `errorIndication` values produced by various parts of
 SNMP engine unified to be `ErrorIndication` instances. This fixes
 an issue with Twisted.
- Embedded MIB modules rebuilt with the latest pysmi adding previously
 missing attributes like `status`, `description` etc.
- Fixed potential SNMP engine crash on handling incoming message
 at unsupported security level

Revision 4.3.5, released 2017-03-24

- The getNext() and getBulk() calls of Twisted interface.
 now support ignoreNonIncreasingOid option.
- TextualConvention is now a new-style class.
- Fix to accidentally reset error-status when building confirmed class
 SNMPv1 PDU.
- Fix to possible infinite recursion in TextualConvention.prettyIn().
- Fixed crash when attempting to report unsupported request/notification
 PDU back to sender.

Revision 4.3.4, released 2017-03-01

- Fix to low-level SNMP API example to accommodate changed pyasn1
 SEQUENCE supporting iterator protocol.
- The pyasn1 version dependency bumped (0.2.3), SEQUENCE/SEQUENCE OF
 API calls adjusted to accommodate changed pyasn1 API (in part
 of .setComponentBy*() kw flags).
- Fixed crash on SNMP engine's invalid message counter increment.

Revision 4.3.3, released 2017-02-04

- Switched from now unmaintained PyCrypto to PyCryptodome.
- Switched to new-style classes.
- NotificationType now allows additional var-binds specified as
 MIB objects. A side effect of this change is that additional
 var-binds can only be added prior to .resolveMibObjects() is
 run.
- Non-standard (but apparently used by many vendors) Reeder AES192/256
 key localization algorithm implemented and set as default for
 usmAesCfb192Protocol and usmAesCfb256Protocol identifiers.
 Original and more standard implementation can still be used
 with the usmAesBlumenthalCfb192Protocol and

usmAesBlumenthalCfb192Protocol IDs respectively.
- TextualConvention.prettyOut() improved to produce prettier and
more SMI-compliant output.
- TextualConvention.prettyIn() implemented to handle DISPLAY-HINT
based value parsing.
- Fix to NotificationType to make additional var-binds overriding
MIB objects implicitly included through NOTIFICATION-TYPE OBJECTS.
- Fix to SNMP engine boots counter persistence on Python 3.
- Fix to Pythonized MIBs loading when only .pyc files are
present (e.g. py2exe/cx_freeze environments).
- Fix broken 3DES key localization and encryption procedures.
- Updated IP address for demo.snmplabs.com in examples.
- Missing index added to bundled RFC1213::atEntry MIB table.
- Twisted integration made Python3 compatible.
- Accommodated ASN.1 SEQUENCE iteration rules change in upcoming pyasn1 version.
- Author's email changed, copyright extended to 2017.

Revision 4.3.2, released 2016-02-12

- Copyright notice added to non-trivial source code files.
- SNMP table row consistency check added. This change may break
valid SNMP SET operations on tables if RowStatus column is not
passed at the very end of var-binds.
- All SNMP counters now incremented via '+= 1' rather than 'x = x + 1'
to simplify their tracking by third-party code.
- Notification originator examples re-pointed to Notification Receiver
at demo.snmplabs.com.
- Two more execution observer points added: rfc2576.processIncomingMsg
and rfc3414.processIncomingMsg to give an insignt on security modules
internals.
- TEXTUAL-CONVENTION's DISPLAY-HINT text formatting reworked for better
performance and encoding accurancy of 'a' and 't' formats.
- WARNING: security fix to USM - extra user entry clone removed on
incoming message processing. It made USM accepting SNMPv3 TRAPs
from unknown SNMP engine IDs.
- Fix to snmpInvalidMsgs and snmpUnknownSecurityModels MIB symbols
import at SNMPv3 MP model.
- Fix to NotificationOriginator to cope with unspecified user callable.
- Fix to OctetString.prettyOut() to pretty-print Python 3 bytes without
'b' qualifier.
- Fix to better pysmi import errors handling.
- Fix to missing next() in Python 2.5 at pysnmp.hlapi

Revision 4.3.1, released 2015-11-12

- Added recursive resolution of ObjectIdentifier values at ObjectType

by converting it to ObjectIdentity.
- A bunch of convenience shortcuts to rfc1902.ObjectIdentity added
from rfc1902.ObjectType and rfc1902.NotificationType
(.addAsn1MibSource(), .addMibSource(), .loadMibs())
- When pretty printing indices at rfc1902.ObjectType, quote only strings.
- SNMP overview and PySNMP hlapi tutorial added to documentation.
- Fix to __doc__ use in setup.py to make -O0 installation mode working.
- Fix to ObjectIdentity->ObjectIdentifier attributes handover
- Fixed crash at oneliner compatibility code on EOM response.
- Fixed crash in hlapi.transport module.
- Fixed OID resolution issues that roots at node 0 and 2.
- Fix to MIB builder to fail gracefully on corrupted MIB package encounter.
- Fix to docs distribution -- now the are Sphinx-buildable out-of-the-box.
- Source code re-linted

Revision 4.3.0, released 2015-09-28

- Critical error fixed in key localization procedure for AES192/AES256/3DES
cyphers. Previous versions might never worked properly in this respect.
- Initial PySMI integration. Original ASN.1 MIBs could now be parsed, stored
at a local pysnmp MIBs repository and loaded into SNMP Engine. Relevant
example scripts added. Obsolete libsmi-based scripts removed.
- Major rewrite of native SNMPv3 CommandGenerator and NotificationOriginator
applications towards the following goals:

* avoid binding to specific SNMP engine instance to promote single
SNMP app instance using many SNMP engine instances
* support two APIs for working with request data: one operates on the
whole PDU object while the other on PDU contents
* keep callback context data in stack rather than in stateful application
cache
* newly introduced sendVarBinds() method offers a more functional and
logical signatures.
* Promote the use of dedicated classes for dealing with OID-value pairs.
Instances of those classes resemble OBJECT-IDENTITY, OBJECT-TYPE and
NOTIFICATION-TYPE MIB structures.
* Oneliner API reworked to become more generic: its LCD configuration
shortcuts and and var-bindings processing code split off SNMP apps
classes to stand-alone objects. The whole API also moved up in package
naming hierarchy and becomes 'pysnmp.hlapi.asyncore' (hlapi is
apparently an African fish). Old oneliner API remains fully operational
at its original location.
* Synchronous oneliner apps redesigned to offer Python generator-based
API along with a more comprehensive set of accepted parameters.
* Asyncore-based asynchronous apps reworked to become functions.
* Twisted API moved entirely into high-level domain to be aligned with
other high-level APIs. This WILL BREAK backward compatibility for

those apps that use Twisted API.
* Keep backward compatibility for all existing major/documented interfaces

- Sphinx documentation added to source code and example scripts. Library documentation converted from .html into RsT markup.
- Execution Observer facility implemented to give app an inside view of SNMP engine inner workings. This is thought to be a generic framework for viewing (and modifying) various internal states of pysnmp engine. Previously introduced non-standard APIs (like getting peer's transport endpoint which is not suggested in RFCs) will be gradually migrated to this new framework.
- Initial support for the asyncio & Trollius frameworks and coroutines-based SNMP Applications interfaces added. Both IPv4 and IPv6 datagram transports are currently supported.
- Original asynsock transport and AsyncsockDispatcher renamed into asyncore and AsyncoreDispatcher respectively to provide better hint to fellow devs on the underlying transport being used. Backward compatibility preserved.
- The asyncore-based transport subsystem extended to support POSIX sendmsg()/recvmsg() based socket communication what could be used, among other things, in the context of a transparent SNMP proxy application. Technically, the following features were brought into pysnmp with this update:

* Sending SNMP packets from a non-local IP address
* Receiving IP packets for non-local IP addresses
* Responding to SNMP requests from exactly the same IP address the query was sent to. This proves to be useful when listening on both primary and secondary IP interfaces.

- Internal oneliner apps configuration cache moved from respective apps objects to [a singular] snmpEngine "user context" object. That would allow for better cache reuse and allow for a single app working with many snmpEngine instances.
- Oneliner GETBULK Command Generator now strips possible excessive OIDs off the bottom of returned var-binds table.
- Constraints assignment shortcut added to some base rfc1902 types (Integer, Integer32, OctetString, Bits). That formally constitutes ASN.1 sub-typing.
- Built-in debugging is now based on Python logging module.
- Examples on a single Transport Dispatcher use with multiple SnmpEngine instances applicatons added.
- Example script on transport timeout & retries manipulation added.
- Example script explaining incoming message's communityName re-mapping added.
- Broadcast socket option can now be enabled with the .enableBroadcast() call for any datagram-based transport (namely, UDP and UDP6).
- AbstractTransportDispatcher's jobStarted() and jobFinished() methods now accept optional 'count' parameter which is a way for an app to indicate how many responses are expected or have been processed in bulk.

- Example script on SNMP Agents UDP broadcast-based discovery added.
- Oneliner transport object now supports setLocalAddress() method to
force socket binding to specified local interface.
- New public DgramSocketTransport.getLocalAddress() returns local endpoint
address underlying BSD socket is currently bound to.
- Passing request details to access control callback at CommandResponder
reworked towards more robust and simple design with the execution observer
facility.
- All MIBs rebuilt with pysmi.
- MIB instrumentation example improved to cover table index building facility.
- Handle the case of null writer at Debug printer.
- Do not cache snmpEngineId & snmpAdminString at CommandGenerator to let it
be reused with many different snmpEngines.
- TRAP PDU agent address evaluation at proto.api made lazy to improve
startup time.
- Multiple fixes to verify pyasn1 decoder.decode() return to withstand
broken SNMP messages or its components.
- First attempt made to make some of SNMP Engine settings persistent
across reboots.
- Make config.delTransport() returning detached transport object. Asyncio
examples now use this facility to explicitly shutdown transport object.
- Parts of SMIv1 remnant MIBs (RFC1213-MIB, RFC1158-MIB) added to provide
complete compatibility with SMIv1. Symbols defined in these MIBs only
present in SMIv1 so they can't be substituted with their SMIv2 analogues.
- MibBuilder.addMibSources() convenience method added.
- The smi.MibBuilder() will now raise more specific exceptions (MibLoadError,
MibNotFoundError) on MIB loading problems rather than more generic
SmiError.
- The oneliner's MibVariable MIB lookup subsystem redesigned for more
generality to mimic OBJECT-TYPE macro capabilities related to SNMP
PDU handling. The two new classed are ObjectIdentity and ObjectType.
The ObjectIdentity class additionally supports just a MIB module name
initializer in which case if resolves into either first or last symbol
in given MIB. Another option is just a MIB symbol initializer without
specifying MIB module.
This new subsystem is moved from the scope of oneliner to more common
pysnmp.smi.rfc1903 scope to more naturally invoke it from whatever
part of pysnmp requires MIB services.
- MibBuilder now prepends the contents of environment variables it
recognizes (PYSNMP_MIB_DIR, PYSNMP_MIB_DIRS, PYSNMP_MIB_PKGS) rather
than using them instead of its default core MIBs.
- Removed RowStatus default value as it may collide with possible subclass
constraints.
- A few additional MIB tree management methods added to MibViewController
to better address ordered nature of MIB tree nodes (namely, getFirst*,
getLast* family of methods).
- Wheel distribution format now supported.
- Fix to authoritative engine side snmpEngineID discovery procedure:

respond with notInTimeWindows rather then with unsupportedSecurityLevel
at time synchronization phase.
- Fix to rfc1902.Bits type to make it accepting hex and binary initializers,
cope with missing bits identifieirs at prettyPrint().
- Memory leak fixed in CommandForwarder examples.
- Fix to BULK CommandGenerator to use the same nonRepeaters OIDs across
multiple GETBULK iterations so returned table for nonRepeaters columns
would hold the same var-bind.
- Fix to CommandGenerator to make sendRequestHandle persistent across
multiple iterations of GETNEXT/GETBULK queries.
- Fix to sendNotification() error handling at NotificationOriginator.
- Fix to preserve possible 'fixed length' setting atrfc1902.OctetString
on clone()'ing and subtype()'ing.
- Fix to rfc1902.OctetString & Bits to base them on OctetString class to
make the 'fixed length' property working.
- Fix to .clone() method of rfc1902.Bits class to make its signature
matching the rest of classes. This may broke code which used to pass
namedValue parameter positionally rather than binding it by name.
- Fix to PDU translation service (proto.proxy.rfc2576) to make it
initializing errorIndex & errorStatus components of the resulting PDU.
- Fix to MsgAndPduDispatcher.sendPdu() to clean up request queue on
pysnmp-level processing failure.
- Fix to SNMPv1/v2c message processing subsystem to make it serving
unique PDU request-id's in both outgoing and incoming confirmed
and response PDU types. Duplicate request-id's in unrelated PDUs may
cause cache errors otherwise.
- Fix to licensing terms of multiple twisted backend modules to make
the whole pysnmp package licensed under BSD 2-Clause license. This
change has been explicitly permitted by the original modules authors.
- Fix to asyncore-based transport not to use asyncore's cheap inheritance
from socket object what caused warnings.
- Fix at NotificationOriginator to make is using MibInstrumentationController
when expanding Notification OBJECTS into Managed Objects Instances.
- Missing wrongLength and wrongEncoding SMI errors added.
- Fix to file descriptor leak at MibBuilder.
- Fix to rfc2576.v2ToV1() to ignore impossible errorStatus.
- Fix to rfc2576.v1ToV2() to reset ErrorStatus==noSuchName on proxying.
- Fix to smi.builder to explicitly fail on any MIB file access error
(but ENOENT) and raise IOError uniformly on any directory/egg access
failure.
- Fix to infinite loop at config.delV3User().

Revision 4.2.5, released 2013-10-02

- License updated to vanilla BSD 2-Clause to ease package use
(http://opensource.org/licenses/BSD-2-Clause).
- A dozen of lightweight Twisted-based example scripts replaced more

complex example implementations used previously.
- SNMP Proxy example apps separated into a larger set of more specialized ones.
- Most of Command Generator examples re-pointed to a live SNMP Agent at demo.snmplabs.com to ease experimentation and adoption.
- Multithreaded oneliner CommandGenerator example added.
- Packet-level SNMP API (pysnmp.proto.api) getErrorIndex() method can now be instructed to ignore portentially malformed errorIndex SNMP packet value what sometimes happens with buggy SNMP implementations.
- Standard SNMP Apps and built-in proxy now ignores malformed errorIndex value.
- Built-in logging now includes timestamps.
- Multi-lingual capabilities of all CommandGenerator & NotificationOriginator apps re-worked and improved. For instance it is now it's possible to run getBulk() against a SNMPv1 Agent invoking built-in SNMP Proxy behind the scene.
- The $PYSNMP_MIB_DIR & $PYSNMP_MIB_DIRS & $PYSNMP_MIB_PKGS path separator made platform-specific.
- Change to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for *all* var-bindings at once. Although RFC2576 does not suggest error-status -> v2c exception translation, historically pysnmp used to perform it for a long time so we can't easily stop doing that.
- Exception re-raising improved at MibInstrumController.flipFlopFsm() and asynsock/twisted dispatchers so that original traceback is preserved.
- A single instance of transport dispatcher can now serve multiple receivers (identified by IDs) chosen by a public data routing method.
- SnmpEngine.[un]registerTransportDispatcher() methods now accept optional receiver ID token to be used by transport dispatcher's data router. This allows for multiple SNMP engines registration with a single transport dispatcher.
- Distribute is gone, switched to setuptools completely.
- The snmpCommunityTable row selection improved to follow RFC2576, clause 5.2.1.
- Asyncore-based dispatcher attempts to use poll() whenever available on the platform. It would help handling a really large number (>1024) of file descriptors.
- AsynCommandGenerator.makeReadVarBinds() generalized into a new makeVarBinds() method which replaces somewhat redundant code at setCmd() and AsynNotificationOriginator.sendNotification().
- AsynCommandGenerator.uncfgCmdGen() & AsynNotificationOriginator.uncfgCmdGen() methods now accept optional authData parameter to remove specific entries from LCD. This can be useful for modifying security parameters for specific securityName.
- SNMP credentials management reworked to separate userName from securityName in snmpCommunityEntry and usmUserEntry tables. Changes made to addV1System(), addV3User() functions as well as to their oneliner's wrappers.
- The contextEngineId parameter of config.addV3User() and auth.UsmUserData()

renamed into securityEngineId as it's semantically correct
- Oneliner UsmUserData() and CommunityData() classes now support clone()'ing
to facilitate authentication data management in user applications.
- Oneliner transport target classes now support the getTransportInfo()
method that returns network addresses used on protocol level.
- Oneliner CommandGenerator.getNext() & .getBulk() methods now support the
maxCalls kwarg to limit the maximum number of iterations to perform.
- The config.addSocketTransport() helper renamed into config.addTransport()
and improved by automatically instantiating compatible TransportDispatcher
making it dispatcher-agnostic. As an additional bonus, application may not
call registerTransportDispatcher() as it would be called by addTransport().
- The SnmpV3MessageProcessingModel.getPeerEngineInfo() method is implemented
to communicate discovered peer SNMP engine information to SNMP apps what
can be used for fine usmUserTable configuration.
- AsynNotificationOriginator.cfgCmdGen() does not take into account
securityModel & securityLevel when reducing LCD access via addTrapUser().
This improves LCD consistency on sparse add/del operatons but also
does not let you to configure different securityModels per securityname
at VACM though the cfgCmdGen() wrapper.
- MIB builder traceback formatting and reporting improved.
- SNMP Engine object now has a snmpEngineID attribute exposed.
- Fix to inet_ntop()/inet_pton() support on Windows at TRANSPORT-ADDRESS-MIB.
- Fix to usmUserSecurityName table column implementation -- automatic value
generation from index value removed.
- Fix and significant logic rework of snmpCommunityTable to make it working
in both Generator and Responder modes and better follow RFC2576
requirements on sequential entries lookup and selection. As a side effect,
untagged snmpCommunityTable entries will *not* match tagged
snmpTargetAddrTable entries and vice versa.
- Fix to Twisted-based NotificationOriginator to make it serving INFORMs again.
- Fix to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated
into rfc1905.noSuchObject exception value for *all* var-bindings. Although
this is not mentioned in RFC, it looks as a more consistent approach.
- Fix of rounding error to base I/O dispatcher's next timer call calculation.
- Explicit twisted dispatcher's timer resolution (of 1 sec) removed to make
use of global default of 0.5 sec.
- Fix to twisted/udp non-default local endpoint binding features. Common
socket ('host', port) notation is now supported.
- Fix to Twisted-based transport to make it closing UDP port / UNIX pipe
on shutdown.
- Fix to Twisted-based dispatcher not to close transport on unregistration
at dispatcher as transports can potentially be reused elsewhere.
- Fix to asyncore-based transport to work only with AsynsockDispatcher's
socket map and not to touch default asyncore's one. The latter have caused
dispatcher/transport restarting issues.
- The delV3User() function improved to drop all rows from USM table that
were cloned from the target one.
- Fix to exceptions handling at MsgAndPduDispatcher.sendPdu() to avoid

sendPduHandle miss (followed by system crash) on cache expiration run.
- Break cyclic references at CommandResponder and NotificationReceiver apps
through close() method.
- Fix to octet string typing at 3DES codec (used to throw an exception).
- Fix to SnmpAdminString, SnmpTagList, SnmpTagValue types to make them
supporting UTF-8 initializers.
- Fix to v1/v2c message processing module which used to refer to a
bogus stateReference in some cases what causes SNMP engine crashes.
- Fix to IPv6 transport to zero ZoneID, FlowID and ScopeID components
sometimes coming along with incoming packet.
- Fix to SNMPv1 MP module to pass stateReference to registered app on
unconfirmed notifications reception (to let NotificationReceiver
Apps browsing request details).
(transport information at the moment) at SNMP engine.
- Asyncsock sockets now configured with SO_REUSEADDR option to fix possible
Windows error 10048.
- Gracefully handle malformed SnmpEngineID at USM coming from SNMPv3 header.
- Typos fixed in error-status constants at CommandResponder
- Missing import added to oneliner auth module.
- Cosmetic changes to v3arch example scripts.

Revision 4.2.4, released 2013-01-30

- SNMPv3 high-level and native API examples reworked and extended to cover
many use cases.
- The missing functionality of NOTIFICATION-TYPE objects being looked up
at local Management Instrumentation and attached to TRAP/INFORM message
by Notification Originator is now fully implemented.
- The missing functionality of passing Response PDU contents of INFORM
request is now implemented at Notification Originator app. The return
value of NotificationOriginator.sendNotification is now a composite object
that includes errorStatus, errorIndex and varBinds.
- The missing functionality of passing lookupNames & lookupValues params
to Notification Originator is now implemented. It may make sense for
INFORMs.
- The missing functionality of passing contextName to oneliner
version of NotificationOriginator.sendNotification is now implemented.
- Oneliner example apps now include cases where non-default SNMP
ContextEngineId/ContextName/SecurityEngineId is used.
- The contextName parameter of SnmpContext.getMibInstrum made optional.
- AbstractMibInstrumController class added as a base class for all possible
kinds of Management Instrumentation controllers.
- Report package version on debugging code initialization.
- MibInstrumController.getMibBuilder() added.
- I/O sockets buffer sizes made configurable, minimum default is now
forced to be no less than 2**17 (to fit two huge datagrams).
- Catch possible exceptions on pyasn1 encoder invocation.

- VACM modules converted from a function into an object to let it keep
state (caches) in the future.
- Unnecessary MibSource explicit initialization calls removed at MibBuilder.
- Example configuration for Net-SNMP's snmptrapd added.
- Cast additionalVarBinds into ObjectIdentifier type at
NotificationOriginator.sendNotification()
- Standard SNMPv3 Apps hardened to catch protocol-related exceptions and
report them as errorIndication's.
- Catch and mute possible failure of getsockname(), that seems to happen
on Windows only so far.
- Memory leak fixed at oneliner cache of already configured targets.
- Fixes to at AsynNotificationOriginator.sendNotification() to make
a) the notificationType param mandatory b)t e varBinds param really
optional
- Fixes to ContextEngineId/ContextName support at the oneliner API: now
both items should be passed to request PDU through Cmd() request
initiation method, the items of authData object should be used only for
LCD configuration.
- Fix to MibVariable handling of the MIB, <empty-symbol> initializers.
- Fix to outgoing queue processing order at socket transport. Now
it's a FIFO discipline rather than LIFO.
- Fix to NotificationOriginator's additionalVarBinds parameter - it is
not mandatory anymore with the oneliner API. Also additionalVarBinds
defaulted value changed from None to () meaning no var-binds.
- Attempt to convert Windows style EOL into UNIX ones in MIB source
modules appeared to be unnecessary and even destructive to modules
data in some cases. So the conversion code removed altogether.
- Fix to isAccessAllowed() error handling at NotificationOriginator. System
used to crash on access denied condition.
- Fix to NotificationOriginator to make it use system uptime and trap OID
values from SNMP engine's instrumentation rather then from SNMP context.
- Fix a couple of bugs at MibTable* logic involved for table instances
creation.
- Fix to Management Instrumentation code to handle cases of non-initialized
or not-compliant-to-constraints Managed Objects Instances.
- Fix to Management Instrumentation code to make table row removal through
SNMP working again. Wrong method (instumClone) was probed at terminal
MIB nodes values instead of the right one (setValue).

Revision 4.2.3, released 2012-09-06

- SECURITY FIX: USM subsystem did not verify securityLevel of a request
to an authoritative SNMP engine against auth/priv protocols
configured for the user in question. That allowed unauthenticated/unciphered
access to pysnmp-based Agent even if USM user is configured to provide one.
- Oneliner [Asyn]CommandGenerator now supports optional keyword args
lookupNames, lookupValues that enable response OID / value looked up at

MIB and reported as a MibVariable container object carrying relevant
MIB info.
- Oneliner [Asyn]CommandGenerator now supports symbolic MIB object names to be
passed within a MibVariable container object which would do a deferred
MIB lookup for name resolution. This is a new and preferred API which
obsoletes the tuple-based one (it is still suppored though).
- Oneliner CommandGenerator's class attributes lexicographicMode, maxRows
and ignoreNonIncreasingOid moved to optional keyword args of nextGen()
and bulkGen() methods.
- IPv6/UDP and Local Domain Socket transport interfaces added to the
oneliner API.
- Mib Instrumentation subsystem re-worked to replace excessive
MibNode's smiCreate()/smiWrite()/smiDestroy() methods with
MibScalarInstance's getValue()/setValue()
- MibTree.readTest[Get]Next() reworked to be called uniformely so
user could tap on these methods at any level of the MIB tree.
- MibTableColumn.getNextNodeWithValue() unpublished API method obsoleted
and removed for clarity.
- Hex dumps of binary parts of the protocol added to ease system
operations analysis.
- SnmpEngineId autogeneration does not call DNS resolver but uses
local hostname not to depend upon local IP availability and performance.
- Example apps reworked, additional SNMPv3 auth/priv protocols and transports
added.
- Package version is now available as __init__.__version__ and it is
in-sync with distutils.
- Package meta-information updated.
- The __init__.py's made non-empty (rumors are that they may be optimized
out by package managers).
- Multiple fixes to UNIX domain socket transport to make it fully
operational again.
- Use sysUpTime value whenever it is included in Notification PDU, otheriwese
resort to SNMP engine uptime reading.
- SNMPv2c Message is now defined in rfc1901.py what matches standard
definition.
- Types defined within SNMPv1/v2c data structures (rfc1157.py/rfc1905.py)
moved to module scope to become accessible by wrapper routines
(v1.py/v2c.py). This is used for setting strictly typed default values
to corresponding SNMP data structures.
- The obsolete and unpublished MibInstrumController.readVarsFast() method
removed for API clarity.
- MibBuilder now distinguishes case of MIB modules filenames even if
underlying OS does not.
- LCD configuration caching is implemented at pysnmp.entity.rfc3413.config
that improves performance of repetitive calls by 10% and might hugely
improve NotificationOriginator's performance when working on a large
number of targets.
- A caching maps implemented at rfc2576 subsystem to speed-up communityName

to/from securityName resolution. The also makes transport tags processing
better compliant to the standard.
- Community and Transport tags processing changed at the oneliner interface
to make the whole mechanism more compliant with the standard. Most
importantly, it is now possible to tag authentication and transport
information separately.
- The NoSuchInstanceError exception class is no more inherits from
NoSuchObjectError to make class hierarchy closer to SNMP specification
which states that these errors are separate and independent.
- The Next & BulkCommandGenerator's split onto single-run and iterative
impementations. The former just process a single interaction and complete
while the latter run as many interactions as user callback function
indicates to.
- The pysnmp.entity.rfc3413.mibvar module is now obsolete by
pysnmp.entity.rfc3413.oneliner.mibvar featuring basically the same
features but within a stateful, dedicated object.
- Auth & target configuration container classes moved to their separate
modules at oneliner API.
- The notificationType parameter of AsynNotificationOriginator.sendNotification
made defaulted to reflect its optional nature.
- Oneliner UsmUserData, UdpTransportTarget, Udp6TransportTarget instances
are not hashable anymore as they are intended to act more like a data
structure than object.
- Built-in debugger now supports negating debugging categories.
- An async/getgen.py example script added.
- Fix to MIB data reading routine to make it working with possible
Windows end-of-line's.
- Fix to CommandGenerator's SNMPv3 engine autodiscovery algorithm
when retryCount is administratively set to 0.
- Fix to Notification Originator to make it communicating a single
sendPduHandle to an application even when multiple INFORMs are triggered
and processed by a single call by way of transport tagging feature.
- Fix to rfc2576:processIncomingMessage() to take SecurityModel into account
when lookup up SecurityName by CommunityName. This allows mixed SNMPv1/v2c
communication with the same target.
- Fix to internal MessageProcessing and SecurityModel timers so they become
dependant on system timer resolution.
- Fix to v1.PDUAPI.setDefaults() method that used to set wrongly typed
time-stamp component.
- Fix to IPv6 address handling to prevent system from crashing whilst
running Python3.
- Fix to SNMPv2 exception objects translation into SNMPv1 PDU and NEXT
OIDs calculation.
- Fix to MibTree class to properly report noSuchObject & noSuchInstance
SNMP special values.
- Fix to libsmi2pysnmp tool to make it working again in Python < 2.7
- Fix to exception handling at decodeMessageVersion() caller to prevent
ASN.1 parsing errors crashing the whole app.

- Fix to GenericTrap type processing at rfc2576:v1Tov2c() which used to
 crash the whole SNMP engine.
- Fix to [possibly uninizilaized] pyasn1 objects printouts at
 MibInstrumController.__indexMib()
- Fix to maxSizeResponseScopedPDU calculation at rfc3414/service.py.
- Dedicated 'withmib' example set is obsolete and removed.
- Another SNMP proxy example app added (1to3.py).
- Fix to MIB modules loading code to make it using __import__() properly.
 This also makes pysnmp working again with Python 3.3rc0.
- Typo fix to snmpInASNParseErrs MIB instance object.
- Typo fix to errind.EngineIdMismatch class and its instance.

Revision 4.2.2, released 2012-04-21

- Oneliner CommandGenerator can now limit the number of SNMP table
 rows returned by nextCmd()/bulkCmd() methods.
- Oneliner CommunityData configuration object can now be initialized
 with community name only, security name will be chosen automatically.
- Oneliner LCD configuration routines reworked towards clarity. The
 side-effect of this change is that repetitive oneliner call with the same
 securityName and different configuration options will only honor
 the first settings. Previous implementation would override older settings.
- Transport dispatcher now provides its own time expressed in
 fractions of second. SNMP engine uses this notion of time for
 handling requests timeout to make packet flow time bound
 to async I/O core operations rather than to real time.
- The libsmi2pysnmp tool improved to handle incomplete SMI v1->v2
 conversion performed by smidump. The remaining core SMIv1 modules
 excluded from the core MIB set.
- The pyasn1 constraint and enumeration objects put into ASN1-*
 MIB modules what appears to be more in-line with SMI. Existing
 MIB modules as well as libsmi2pysnmp tool corrected accordingly.
- SMIv1 MIB modules (including RFC1155 and RFC1213) were moved to
 pysnmp-mibs as pysnmp is SMIv2-based.
- The MibBuilder.importSymbols() now takes optional kwargs and
 push them into MIB modules globals(). This is to facilitate
 passing user infomation, such as DB connection handler, to MIB
 module namespace so it could be used by ManagedObjects implementations.
- When running on Python3, SMI will re-raise exceptions with the original
 traceback for easier diagnostics.
- Out of PYTHONPATH MIB paths now supported.
- Added pyasn1 decoder failures diagnistics in debug mode.
- Fix to non-MT-safe class attributes at SNMPv3 MP & SEC modules.
- Fix to ContextName handling in bytes form whilst running Python3. Data
 mismatch error would return otherwise.
- Fix to SNMPv3 MP peer engine ID discovery not to learn and use
 user-specified ContextEngineId.

- Fix to socket.error processing at Py3 on Windows.
- Fix to oneliner GETNEXT/GETBULK implementation to properly support
ignoreNonIncreasingOIDs option.
- Fix to setEndOfMibError()/setNoSuchInstanceError() at v1 PDU not to
loose errorIndex.
- Fix to api.v2c.getVarBindTable() to ignore possible non-rectangular GETBULK
response tables.
- Fix to oneliner getnext/getbulk response table rectangulation procedure
to gracefully handle an empty column condition.
- Fix to legacy MibBuilder.getMibPath() to prevent it from missing
.egg-based components in path.
- Fix to oneliner configuration routine that used to implicitly
tag SNMPv1/v2c auth and transport LCD rows what resulted in
huge delays when processing incoming messages with large number
of peers configured.
- Fix to UDP6 transport handling at rfc2576 security module.
- Fix to SnmpEngineID value autogeneration (used to fail on Mac).
- SNMPv2-SMI.ObjectType.__repr__() fixed to do a repr() on its components.
- All SNMPv2-SMI.MibNode-based objects, once exported to a mibBuilder, will
carry an embedded label symbol.
- Exlicit repr() calls replaced with '%r'
- Fix to error processing at GETNEXT & GETBULK apps response handlers.
- Fix to libsmi2pysnmp to make it supporting long (256+) list of function
params.
- Fix to libsmi2pysnmp to support inheritance of MIB types.

Revision 4.2.1, released 2011-11-07

- Support string OIDs at one-liner API.
- Code quality of libsmi2pysnmp tool improved, MIBs re-built.
- SNMP-PROXY-MIB & SNMP-USER-BASED-SM-3DES-MIB added
- v1arch bulkgen.py example added
- Major overhawl for Python 2.4 -- 3.2 compatibility:

+ get rid of old-style types
+ drop string module usage
+ switch to rich comparation
+ drop explicit long integer type use
+ map()/filter() replaced with list comprehension
+ apply() replaced with var-args
+ dictionary operations made 2K/3K compatible
+ division operator made 2K/3K compatible
+ sorting function now operates on key
+ iterators returned by some funcs in py3k converted to lists
+ exception syntax made 2K/3K compatible
+ tuple function arguments resolved to scalars to become py3k compatible
+ BER octetstream is now of type bytes (Py3k) or still string (Py2k)

Revision 4.1.16d, released 2011-09-22

- Fix to SNMPv1 Trap PDU agentAddress setter shortcut method.

Revision 4.1.16c, released 2011-08-14

- Missing module import fixed in privacy subsystem

Revision 4.1.16b, released 2011-08-13

- Oneliner CommandGenerator can now optionally ignore non-increasing OIDs.
- Default CommandResponder now skips non-compliant (Counter64) values
 when responding to a v1 Manager.
- Fix to state information handling at CommandResponder app.
- Fix to Twisted reactor shutdown condition.
- Fix to distutils dependencies syntax.

Revision 4.1.16a, released 2011-03-17

- Extended Security Options (3DESEDE, AES192, AES256) privacy
 protocols implemented.
- The error-indication codes moved from literals to objects for reliability
 and clarity
- Fix to v1.TrapPDUAPI.getVarBinds() to address PDU component at the right
 position.
- Fix to rfc1902.Bits initialization from named bits sequence.
- Fix to MIB builder by-extension module filtering code to cope with .pyw
 files.
- Internal caches structure improved.
- Sync versions of oneliner apps split off async implementation for clarity.
- Randomize initial in various numeric sequences.
- MsgAndPduDsp expectResponse parameters passing reworked.
- GetNext/GetBulk response processing logic moved to getNextVarBinds()
- Changes towards performance improvement:

 + all dict.has_key() & dict.get() invocations replaced with modern syntax
  (this breaks compatibility with Python 2.1 and older).
 + introduce the MibInstrumControlle.readVarsFast() method (which skips
  the "testing" phase of MIB value readin) for dealing with internal
  configuration (LCD).
 + default debug.logger is now just a zero value instead of an object
  what saves big on frequent calls
 + SNMPv2-SMI columnar indices <-> index values conversion code optimized.

+ pre-compute and re-use some of ASN.1 structures.
+ avoid setting PDU defaults to save on unnecessary initialization.
+ skip ASN.1 types verification where possible.
+ at oneliner Command Generator, avoid looking up pure OID arguments
  at MIB as it's pointless but takes time.
+ cache MIB columnar objects instance ID <-> symbolic index representation
  mapping

Revision 4.1.15a, released 2010-12-13

- SNMP Proxy example added.
- End-of-MIB condition detection reworked what caused backward
 incompatibility at v1arch GETNEXT API. Previous pysnmp versions
 used value = None in var-binds as returned by getVarBindTable()
 API method. This version uses rfc1905 exception values (v2c/v3)
 or pyasn1 Null (v1).
 Built-in GETNEXT/GETBULK apps now do not require user to track
 end-of-mib conditions anymore -- this is now done automatically.
- CommandResponder API now supports async mode of operation.
- SNMP exception values now exported from rfc1905 module, and made
 pretty printable.
- Lexicographic walking mode is now supported at oneliner CommandGenerator.
- ContextEngineId&ContextName parameters passing implemented at
 v3arch oneliner API.
- Multiple instances of the same transport domain now supported.
- Initial snmpEngineId value generation improved not to accidentally
 collide within an administrative domain.
- MibTableColumn instances now build value-to-column-instance map
 to speedup by-value search.
- SNMPv2-CONF::AgentCapabilities macro implemented.
- The libsmi2pysnmp tool handles some more MACROs.
- Void access control module implemented to let apps disabling [default] VACM.
- Allow standard SNMP apps to choose access control method to use.
- Twisted-based CommandResponder example added.
- Fix/rework of Twisted GETNEXT/BULK CommandGenerator callback API to
 make it simpler and uniform with other CommandGenerators
- Fix to SNMPv3 security module to store peer SNMP engine timeline
 only if taken from an authenticated message. Prior to this fix
 SNMP engine was not been protected from spoofing.
- Fix to $SMIPATH initialization at build-pysnmp-mib.
- Fix to maxSizeResponseScopedPDU calculation.
- Fix to Next/Bulk CommandGenerators to catch a non-increasing OID
 error condition (what prevents looping).
- Fix to Opaque value tagging at rfc1155.Opaque type.
- Fix to handle (fail gracefully) zero-length user password.
- Fix to SNMP error propagation at Twisted driver (SF tracker ID #3054505).
- Fix to Agent-role snmpEngineId discovery procedure that allows

authenticated ReportPDU generation.
- Fix to SNMPv1 PDU handling at CommandResponder & NotificationReceiver
apps.
- Fix to CommandResponder app to skip Counter64 SMI values when responding
to SNMPv1 Manager.
- Fix to protocol translator code (rfc2576) to handle Counter64 type
in v2c-to-v1 PDU translation.
- Fix to non-response var-binds translation in rfc2576.v2ToV1().
- Fix to wrong exceptions used in pysnmp/entity modules.
- Fix to noauth/nopriv security module so that it would not crash SNMP
engine if called accidentally.
- Fix to CommandResponder not to return out-of-range errorIndex along
with genErr
- Fix to GETBULK CommandResponder to do a by-column MIB walk, not by-raw.
- Fix to getVarBindTable() API function logic.
- Fix to example Manager scripts to use errorIndex when available.
- Fix to dummy encryptData()/decryptData() API
- Fix to oneliner GETBULK table collection code to make it stripping
uneven rows off table tail.

Revision 4.1.14a, released 2010-07-15

- Fix to maxSizeResponseScopedPDU calculation at USM security module: now
more precise and robust against screwed values on input.
- Fix to MIB loading logic that used to load same-name modules at
disticts search paths on each loadModules() call.
- Fix to AsynsockDispatcher.runDispatcher() to make use of optional
non-default select() timeout value.
- AbstractTransportDispatcher now allows user application registering
multiple timer callbacks each with dedicated call period.
- Asynsock mainloop default idle period reduced to 0.5 sec for better
timer resolution.
- Fix to SNMPv1->SNMPv2c error status handling at proxy module. This
defect may have caused an infinite loop on a multiple var-bind
SNMPv1 GetNext operation.
- Fix to contextName processing at config.addV1System -- typo rendered
passed contextName not committed into LCD.
- Fix to unknown ContextName exception handling at CommandResponder App.
- config.addVacmUser() now accepts an optional contextName what makes
it usable for configuring multiple contextName-bound bases of Managed
Objects to SnmpEngine.
- MP pending states cache management re-worked so that SNMP engine will
now handle an unlimited number of pending request/responses.
- Fix to SNMP discovery procedure: include ContentName in SNMP discovery
messaging.
- Many fixes to AES crypto code that makes it actually working.
- Fix to SNMPv2-SMI createUndo operations.

- Fix to INFORM sending error handling at oneliner.
- Fix to mismatched response PDU handling at CommandGenerator application.
- Debug category 'app' (for Application) added to facilitate
 Standard SNMP Applications debugging.
- The retryCount semantic of CommandGenerator application changed to include
 sole retries and do not include initial request. Thus, retryCount=1 will
 now send up to two packets, not just one as it used to be.
- Debugging printout now escapes non-printable characters.

Revision 4.1.13a, released 2010-02-09

- UDP over IPv6 transport implemented.
- Fix to MIB tree walking code that used to fail on table columns where
 indices have identical leading parts.
- SNMPv1/v2c snmpCommunityTransportTag-based imcoming message filtering
 implemented (rfc2576).

Revision 4.1.12a, released 2009-12-03

- API versioning retired (pysnmp.v4 -> pysnmp).
- MIB loading mechanics re-designed to allow ZIP import.
- MIB loader supports code objects (py[co])
- Installer now uses setuptools for package management whenever available.
- The libsmi2pysnmp tool improved to build constraints of more than
 256 items (Python has a limit on the number of function params).
- Missing SNMPTrap PDU API implemented at proto.api.v2c, RFC2576 proxy
 code reworked.
- Fix to sysUpTime OID at SNMPv2 TRAP PDU.

Revision 4.1.11a, released 2009-08-21

- Twisted integration implemented.
- Attempt to use hashlib whenever available.
- Fix to oneliner Manager code on < Python 2.4.
- Let NotificationReceiver and CommandResponder Apps browsing request details
 (transport information at the moment) at SNMP engine.
- Fix to config.addV1System() to allow multiple systems to co-exist in LCD.
- Fix to wrongly succeeding user-parameters-by-community-name searching code
 in rfc2576 processIncomingMsg() method.
- Do sanity checking on PYSNMP_MODULE_ID, Groups and Notifications in
 libsmi2pysnmp (SF bug #2122489).
- Fix to oneliner Notification Originator that sometimes used to send multiple
 requests at once.
- Oneliners LCD names generation code reworked to avoid accidental clashes.
- Fix and re-work of sysUpTime value management in LCD.

- Fix to pending inform request data caching in mpmod/rfc2576.py -- previous code led to cache data corruption on multple outstanding requests.
- In SMI configuration wrapper functions, catch access to non-configured entries and raise an exception.
- Allow multuple callback timer functions in all transport dispatchers.
- Fix to libsmi2pysnmp code to preserve more underscored object names and to guess the right type between indistinguishable ObjectGroup & NotificationGroup
- Fix to MibScalarInstance value setting logic - previous code failed when modifying the same OID multiple times within a single SET operation.
- Minor usability improvements to tools/build-pysnmp-mib.
- Made MIB objects unexport feature operational.

Revision 4.1.10a, released 2008-05-25

- Internal MIB indexing method __indexMib() unmangled to facilitate setting up mutex there for sharing MIB stuff between threads.
- Fixed broken IpAddress value handling in SET operation.
- Broken MibBuilder.unloadModules() method now works.
- Use getLabel() SMI object method when building MIB tree (in builder.py) in addition to direct attribute access for clearer object protocol.
- The MIB building tools updated to match significantly improved smidump tool (libsmi version > 0.4.5).
- Made libsmi2pysnmp tool optionally building MIB text fields into pysnmp MIB code (enabled by default) and MibBuilder conditionally loading them up (disabled by default).
- SnmpEngine and MsgAndPduDispatcher constructors now optionally take msgAndPduDspr and mibInstrumController class instances respectively to facilitate these objects sharing within a process.
- Unique integers, for various parts of the system, are now generated by a nextid.py module. This fixes possible issues with duplicate request IDs and handlers.
- Built-in MIBs re-generated to include text fields.

Revision 4.1.9a, released 2007-11-28

- UNSTABLE ALPHA RELEASE.
- At onliner CommandGenerator, close transport on destruction to prevent socket leak. Implicit async transports registration at default asyncore's socket map has been disabled to avoid side effects.
- Fix to rfc2576.v1ToV2c() PDU converter to perform noSuchName error code translation.
- Fixes to Notification PDU conversion code at rfc2576 in part of snmpTrapOID handling.
- Fix to nonRepeaters object use as sequence slicer (must be int) at

cmdrsp.CommandResponderApplication
- Make AsynsockDispatcher using its own socket map by default for
threading safety. This will break asyncore apps that rely on pysnmp
sharing the same socket map with them. A solution would be to either
set asyncore map to pysnmp (AsynsockDispatcher.setSocketMap()) or pass
pysnmp map (AsynsockDispatcher.getSocketMap()) to asyncore.
- Fix to response timeout roundup bug at CommandGenerator and
NotificationOriginator code.
- Oneline configuration classes made hashable to prevent memory leaks
when committing them into CommandGenerator/NotificationOriginator
internal repository.
- Security information is now released properly in all MP modules.
This might fix a significant memory leak.
- Typo fix to rfc3411 confirmed class PDU members.

Revision 4.1.8a, released 2007-08-14

- UNSTABLE ALPHA RELEASE.
- SMI/dispatcher timeout conversion multiplier is actually 100 (1/100 sec)
rather than 1/1000. This fix affects timeouts specified through SMI.
- __repr__() implemented for UdpTransportTarget, CommunityData, UsmUserData
in oneliner module.
- Automatically initialize table index values on table management
operations (SF bug ID #1671989).
- Fix to carrier code: ignore BADFD socket error as it may happen upon
FD closure on n-1 select() event.
- Fix to MibBuilder.setMibPath() to preserve previously loaded modules
intact. Otherwise loadModules() called after setMibPath() might fail
with 'MIB file not found in search path' exception.
- Fix to oneliner classes that now invoke unconfiguration methods on
destruction. This might have caused memory leaks.
- Automatically initialize SNMP-USER-BASED-SM-MIB::UsmUserSecurityName
columnar object instance on creation, as stated in DESCRIPTION (SF
tracker ID #1620392).
- Fix to USM timeframe arithmetics (SF bug #1649032).
- VACM shortcuts merged into universal add/delVacmUser() to let notifications
and requests to co-exist for the same user.
- At oneliners, build LCD tables keys from a hashed mix of input parameters
to make sure these automatic entries won't interfere or exceed constraints
on keys values.
- Made use of notificationType parameter of the sendNotification method
in NotificationOriginator applications. This parameter used to be
ignored in the past. Note, that previously used (and ignored) syntax
has been changed in an incompatible way.
- Allow plain Python values in setCmd() and sendNotification()
methods in CommandGenerator and NotificationOriginator applications
respectively.

- Multi-target oneliner API-based example script added.
- Ignore more socket errors in datagram-type async socket code.
- AES cipher now supported (rfc3826).
- Fix to messed up tagIDs of noSuchInstance and noSuchObject types.
- SET Command Responder fixed to obscure access to non-existing variables
 by returning notWritable error (SF bug #1764839).
- AsynsockDispatcher.setSocketMap() method added to facilitate pysnmp
 transport integration into third-party asyncore-based applications.
- Fix to errorIndex generation at CommandResponder application, the value
 should be a one-based.

Revision 4.1.7a, released 2007-02-19

- UNSTABLE ALPHA RELEASE.
- Low-level debugging facility implemented.
- Support UdpTransportTarget timeout and retries parameters in oneliner API.
- Fix to snmpTrapOID construction at ...proxy.rfc2576.v1ToV2()
 function.
- Fix to MibViewController.getNodeName() to take MIB module name
 into account (SF bug #1505847).
- Do explicit check for Counter32,Unsigned32,TimeTicks,Counter64 value types
 in MibTableRow index conversion and in TextualConvention.prettyPrint()
 methods (SF bug #1506341). Handle Bits in indices as RFC2578 suggests.
- Apply read-create column status to libsmi2pysnmp-generated code
 whenever MIB text specifies that (SF bug #1508955).
- Honor and apply DISPLAY-HINT specification when building TextualConvention
 class at libsmi2pysnmp.
- Managed Objects Instances files (smi/mibs/instances/) are now
 double-underscore prefixed to make them imported explicitly by these
 prefixed names. They used to be imported as a side-effect of
 Managed Objects files import what is way too hackerish.
- The libsmi2pysnmp now supports future libsmi bugfix that would generate
 "ranges" subtree along with the legacy and ambiguous "range" one.
- SMI support for fixed-length string indices implemented (SF bug #1584799,
 #1653908).
- Managed Object Instances may now have smiRead, smiWrite, smiCreate methods
 to support specific value mangling. These methods, if present, would be
 invoked from SNMP [Agent] core instead of conventional clone() method.
 The reason is to separate trivial value duplication from specific
 Instance value mangling that may have Agent-specific side effects
 (such as RowStatus).
- MIB table row destruction now works (SF bug #1555010).
- LCD unconfiguration functions for oneliners implemented (SF bug #1635270).
- unloadModules() and unexportSymbols() implemented at MibBuilder
- Notification type PDU proxy code fixed to produce symmetrical
 conversion.
- Various SNMP engine-internal caches expiration implemented.

- SMI-level access control now takes effect only if AC object is
passed to MIB instrumentation API.
- LCD management code now uses generic MIB instrumentation features.
- Fix to oneliner manager code to have individual UdpSocketTransport
instance per each SnmpEngine. Multithreaded apps might fail otherwise.
(SF bug ID #1586420).
- Exclude the PYSNMP_MODULE_ID symbol from MIB view index, as it may get
resolved into OID label instead of actual MIB object name.
- Memory leak fixed in indices.OidOrderedDict implementation.
- Fix to VACM shortcuts to let notifications and requests to co-exist
for the same user otherwise.
- Fix to ...oneliner.cmdgen.UsmUserData to support non-default ciphers.
- USM now uses local notion of snmpEngineBoots/Time when authoritative
and cached estimate otherwise. Also, a security fix applied to to USM
time-window verification (SF bug #1649032).
- Fix to notification objects resolution code at
NotificationOriginator.sendNotification()
- Do not raise securityLevel for USM error reports that lacks user
information, as these reports could never be ciphered (SF bug #1624720).
- Non-default BULK PDU params now actually applied.
- SnmpEngineID default value generation algorithmic function changed
to allow multiple SNMP engines running on the same host.
- Documentation updated.
- A handful of minor fixes applied (SourceForge tracker IDs #1537592,
#1537600, #1537659, #1548208, #1560939, #1563715, #1575697, #1599220,
#1615077, #1615365, #1616579).

Revision 4.1.6a, released 2006-05-25

- UNSTABLE ALPHA RELEASE.
- pysnmpUsmSecretAuthKey and pysnmpUsmSecretPrivKey length increased
up to 256 octets. There seems no limit on this in RFC, though.
- A workaround for probably broken Agents: SNMPv3 Manager code defaults
ContextEngineId to SecurityEngineId whenever ContextEngineId is not
reported by authoritative SNMP engine on discovery.
- Use empty PDU in engine-discovery report at mpmod/rfc3412.py.
- MibBuilder.loadModules() now fails on missing MIB files.
- MibBuilder.exportSymbols() now accepts unnamed objects (likely Managed
Objects Instances)
- SNMPv2-SMI.MibScalarInstance objects now support create*/destroy*
Management Instrumentation methods to pass Columnar Object creation and
removal events. MibTableColumn class invoke these methods accordingly.
- Fix to AsynNotificationOriginator.asyncSendNotification() callback
formal parameters
- Initial VACM configuration implemented according to rfc3415 Appendix 1
- tools/buildmibs.sh split-up and re-implemented as tools/build-pysnmp-mib
and pysnmp-mibs/tools/rebuild-pysnmp-mibs for better usability. These

and libsmi2pysnmp scripts made installable.
- Types/Notifications/Groups exportSymbols() call chunking implemented
in tools/libsmi2pysnmp
- Initial values specified to pyasn1 types to comply with latest pyasn1 API.
- Documentation improved
- Minor fixes towards Python 1.5 compatibility

Revision 4.1.5a, released 2005-11-04

- UNSTABLE ALPHA RELEASE.
- Multi-lingual SNMP Trap/Inform Applications completed; examples added
- SMI model re-designed to make a clear separation between
Managed Objects and their specification (AKA Agent and Manager side)
- SNMP SET Application support completed
- Minor, though backward incompatible, changes to one-liner API
- Many bugfixes

Revision 4.1.4a, released 2005-08-16

- UNSTABLE ALPHA RELEASE.
- SHA-based authentication fixed and privacy implemented
- ...oneliner.cmdgen.UsmUserData constructor now takes
authProtocol and privProtocol parameters in a backward incompatible
manner.

Revision 4.1.3a, released 2005-07-28

- UNSTABLE ALPHA RELEASE.
- rfc3413 applications API changes (related to callback function
behaviour).
- TransportDispatcher now provides "jobs" interface to clients
for better control of dispatcher's execution.
- Many minor fixes.

Revision 4.1.2a, released 2005-07-12

- UNSTABLE ALPHA RELEASE.
- Top-level application classes renamed into longer, self descripting names
for clarity.
- CommandResponder & NotificationOriginator applications now uses
stand-alone SnmpContext for application registration.
- Many minor fixes (inspired by testing on WinXP)

Revision 4.1.1a, released 2005-06-29

- UNSTABLE ALPHA RELEASE.
- SNMPv3 code first published
- SNMP engine and applications implemented on library level
- Major re-design towards SNMPv3-style API.

Revision 4.0.2a, released 2005-03-01

- Adopted to slightly changed asyncore API (as shipped with python 2,4)

Revision 4.0.1a, released 2004-11-18

- Minor bug/typo fixes, mostly in example/ scripts.

Revision 4.0.0a, released 2004-11-15

- UNSTABLE EARLY ALPHA RELEASE.
- Major re-design and re-implementation.
- Rudimental API versioning implemented to let incompatible package
 branches to co-exist within the same Python installation.
- SMI framework designed and implemented. This framework provides
 1) various access to MIB data 2) a way to implement custom MIB
 instrumentation objects. There's also a tool for building SMI classes
 from libsmi(3) output (smidump -f python).
- ASN.1 subtyping machinery implemented. Now dynamic ASN.1 instances
 subtyping and quering becomes available. Previously, this has been done
 through Python classes inheritance what proved to be a wrong concept.
- ASN.1 codecs framework re-designed and re-implemented aimed at a more
 consistent design and better performance. Highlights include abstract
 codec interface and serialized data caching (at encoder).
- Asn1Item constraints machinery re-implemented based on Mike C. Fletcher's
 design and code. Now various constrains are implemented as stand-alone
 objects serving interested Asn1Object derivatives through some abstract
 protocol (that's probably the Decorator design pattern).
- ASN.1 tagging facility re-implemented along the client-server design
 pattern. Besides this seems to be a more appropriate design, it allows
 an easier way for dynamic subtyping.

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Further development

Although PySNMP is already a mature software and it is being used at many places, the ultimate goal of the project is to implement most of the useful features that SNMP standards can offer. What follows is a list of most prominent missing features that PySNMP developers are planning to put their hands on in the future.

PySNMP library
+++

#. Built-in MIB parser. PySNMP uses a data model of its own to work with information contained in MIB files. To convert ASN.1-based MIB texts into Python modules, an off-line, third-party tool is employed. As it turns out, this approach has two major drawback: one is that PySNMP users may need to pre-process MIB texts to use them with their PySNMP-based applications. Another is that LibSMI's Python driver seems to miss some information carried by MIBs. Thus the solution would be to write another MIB parser and code generator which would produce PySNMP compliant Python code right from MIB text files all by itself.

Done: see `PySMI project <http://snmplabs.com/pysmi/>`_ in conjuction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst
  in Manager role could be post-processed using the information kept in
  MIB files to include human-friendly OIDs names, tables indices and
  values representation. However, there is currently no provisioning in
  the PySNMP system for locating and loading up MIB files containing
  additional information on arbitrary OIDs. So the idea is to maintain
  an OID-to-MIB index to let PySNMP load relevant MIB automatically on
  demand.

#. Stream sockets support. Currently, PySNMP transport subsystem only
  supports datagram-type network sockets. That covers UDP-over-IPv4 and
  UDP-over-IPv6. However, SNMP engine can potentially run over
  stream-oriented protocols what would let it support TCP-over-IPv4,
  TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently
  implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance,
  having AgentX protocol support in pure-Python would let us write AgentX
  modules in pure-Python and attach them to high-performance Net-SNMP
  Agent. Or we could build and maintain a fully-featured, stand-alone
  PySNMP-based Agent so that users would write their own AgentX extensions
  what would comprise a complete SNMP Agent solution at lesser effort.

#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python
  objects that let user hook up his own handler on any existing Managed
  Object Instance. That's flexible and working approach in many cases,
  however sometimes, for instance when Management Instrumentation is
  inherently DBMS-based, it may be more efficient to move the entire
  SMI/MIB subsystem into a database. PySNMP engine would talk to it
  through its simple and well defined SMI API.

Stand-alone PySNMP-based tools
++++++++++++++++++++++++++++++

#. SNMP Proxy Forwarder. That would be a stand-alone, application-level
  proxy service supporting all SNMP versions, multiple network transports,
  Command and Notification SNMP message types. Its anticipated features
  include extensive configuration facilities, fine-graned access
  control and logging.

  Done: see `SNMP Proxy Forwarder <http://snmplabs.com/snmpfwd/>`_.

#. SNMP Trap Receiver. We see this application as a simple yet flexible
  SNMP TRAP collector. It would listen on network sockets of different
  types receiving SNMP TRAP/INFORM notifications over any SNMP version
  and putting all the details into a database and possibly triggering
  external events.

#. Database backend for SNMP Simulator. We have already built a tool for
  simulating SNMP Agents based on a snapshot of their Management
  Instrumentation state. Current implementation uses a plain-text file
  for keeping and possibly managing the snapshot. Many users of the
  Simulator software requested a value variation feature to be supported
  so that simulated Agents would look live, not static. We consider this
  variation and also dependencies features would be best implemented as
  a relational database application. So we are planning to put some more
  efforts into the Simulator project as time permits.

  Done: since `snmpsim-0.2.4 <http://snmplabs.com/snmpsim/>`_

If you need some particular feature - please,
`open a feature request <https://github.com/etingof/pysnmp/issues/new>`_ . Once we
see a greater demand in particular area, we would re-arrange our
development resources to meet it sooner.

You could greater speed up the development of particular feature by
sponsoring it. Please get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well.
We require contributed code to run with Python 2.4 through the latest
Python version (which is 3.7 at the time of this writing). Contributed
code will be redistributed under the terms of the same
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Metadata-Version: 1.2
Name: pysnmp
Version: 4.4.12
Summary: SNMP library for Python
Home-page: https://github.com/etingof/pysnmp
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description:
    SNMP v1/v2c/v3 engine and Standard Applications suite written in pure-Python.
    Supports Manager/Agent/Proxy roles, Manager/Agent-side MIBs, asynchronous
    operation and multiple network transports.

Platform: any
Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
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Classifier: Programming Language :: Python :: 3.7
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1.108 tcl 8.6.9

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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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1.111 binutils 2.32.51

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++++++++++++++++

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

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

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and

verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

Many others have contributed large or small bugfixes and enhancements. If
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1.112 daslr 20150612

1.112.1 Available under license :

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```
/*
*-----------------------------------------------------------
* libdASLR Function Definitions
*
* April 2011
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*-----------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/libdaslr/src/libdaslr.c
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```
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*-----------------------------------------------------------
* dASLR Application Printing Routines File
*
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*/
```

Found in path(s):
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```
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*-----------------------------------------------------------
* dASLR Application Header File
*
* April 2011
*
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*/
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Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/daslr_app/include/daslr_app.h

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```
/*
*-------------------------------------------------------------
* dASLR Diagnostic Program
*
* File for the diagnostic program used in run-time ASLR verification
*
* The output of this program is expected to be like the following, though the
* individual lines can be in any order.
*
*  stac:0xSTACKADDR
*  heap:0xHEAPADDR
*  Bsss:0xBSSADDR
*  Data:0xDATAADDR
*  text:0xTEXTADDR
*  amap:0xANON_MAPADDR
*  pths:0xPTHREADSTACKADDR
*
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*-------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/libdaslr/src/diagnostic.c
No license file was found, but licenses were detected in source scan.

```
/*
*-------------------------------------------------------------
* Result API Function Definitions
*
* April 2011
*
* Copyright (c) 2011 by cisco Systems, Inc.
* All rights reserved.
*-------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/libdaslr/src/results.c
No license file was found, but licenses were detected in source scan.

```
/*
*-------------------------------------------------------------
* dASLR Application Source
```

*
* April 2011
*
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*--
*/

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/daslr_app/src/daslr_app.c
No license file was found, but licenses were detected in source scan.

/*
*--
* dASLR Application Constants Header File
*
* April 2011
*
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*--
*/

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/daslr_app/include/daslr_app_constants.h
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/*
*--
* dASLR Application Printing Routines Header File
*
* April 2011
*
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*--
*/

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/daslr_app/include/daslr_app_print.h
No license file was found, but licenses were detected in source scan.

/*
*--
* dASLR Application Error-Handling Header File
*

* April 2011
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*--
*/

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/daslr_app/include/daslr_app_errors.h
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/*
*--
* libdASLR Header File
*
* April 2011
*
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*--
*/

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/libdaslr/include/daslr.h

1.113 procps 3.3.15

1.113.1 Available under license :

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1.115 python-zope-hookable 5.0.1

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1.116 python-automat 20.2.0

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1.117 python-yaml 5.3.1

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1.118 python-functools32 3.2.3-2

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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1.119 python-requests 2.24.0

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1.120 libpcap 1.9.1

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1.121 python-pycpuid 0.4

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1.122 libuv v1.9.1

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1.123 pciutils 3.6.4

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1.124 python-incremental 17.5.0

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1.125 python-service-identity 18.1.0

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1.126 python-ndg-httpsclient 0.5.1

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1.129 python-tubes 0.2.0

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1.130 python-ipaddr 2.2.0

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1.131 shadow 4.8.1

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1.132 json-c 0.14-20200419

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1.133 python-jsonschema 3.0.2

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1.134 python-pygobject 2.28.6

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1.137 python-bidict 0.18.3

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1.138 python-typing 3.7.4.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.139 glib 2.64.4

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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
*
* 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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1.144 d-bus 1.13.16

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1.145 python-pyopenssl 19.1.0

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1.146 apache-http-server 2.4.43

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```

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```
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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For the test\zb.c component:

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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)
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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
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X
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</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 rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
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</script>

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href="http://wiki.apache.org/httpd/FAQ">FAQ | Glossary | <a
href="./sitemap.html">Sitemap
Apache HTTP Server Version 2.4

<img title="<-" alt="<-" src="./images/left.gif" />

Apache > HTTP Server > <a
href="http://httpd.apache.org/docs/">Documentation > Version 2.4 <div id="page-
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should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
href="https://httpd.apache.org/lists.html">mailing lists.
<script type="text/javascript"><!--//--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;

```
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
  }
})(window, document);
//--><![]></script></div><div id="footer">
<p class="apache">Copyright 2020 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a
href="./sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--//--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
}
//--><!]]></script>
</body></html>
```

1.147 expat 2.2.9

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1.148 udev 167

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1.149 python-mox 0.5.3

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1.150 python-klein 20.6.0

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1.151 python-pyinotify 0.9.6

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1.152 sysstat 12.3.3

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former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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POSSIBILITY OF SUCH DAMAGES.
@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading 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.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}

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it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
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along with this program; if not, write to the Free Software
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@end smallexample

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:

@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{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.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{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:

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

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

@end example

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the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:
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 - the libintl.jar Java library,
 - the GNU.Gettext.dll C# library,
 - the gettext.sh shells script function library.

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directory:
 - the _programs_ gettext, ngettext, envsubst,
 - the documentation.

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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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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.
^L

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

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Version 3, 29 June 2007

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1. Source Code.

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

form of a work.

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1.157 openssl 1.0.2u

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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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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.

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1.160 python-websocket_client 0.57.0

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1.161 tcpdump 4.9.3

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1.162 stringencoders 3.10.3

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1.163 gawk 5.1.0

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1.164 sslh 1.20

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1.165 libidn 1.35

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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.

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

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1.166 iproute 5.7.0

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1.167 popt 1.18

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1.168 python-subprocess32 3.5.4

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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
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releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.172 python-attrs 19.3.0

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1.173 python-parsedatetime 2.5

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1.174 nss-ldap 265

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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.

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

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file

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

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

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

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

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

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

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

than the cost of performing this distribution.

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

1.175 tar 1.32

1.175.1 Available under license :

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
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For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
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Developers that use the GNU GPL protect your rights with two steps:
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giving you legal permission to copy, distribute and/or modify it.

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

on the Program.

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

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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

2. Basic Permissions.

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

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

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

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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

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

5. Conveying Modified Source Versions.

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

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

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

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

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

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)

that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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#
```

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

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#
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Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
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----

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#
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github.com/kanyawtech/myanmar-karen-word-lists
#

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7. Database Ownership
#
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not apply to the TZ Database or contributions that individuals make
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-*-makefile-*-
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BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
Copyright (c) 1999-2013, International Business Machines Corporation and
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Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

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

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

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


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

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
```

```
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

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

##  Bind internal references

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

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

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

## End BSD-specific setup
```

1.181 gch 0.1

1.181.1 Available under license :

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

```
/*!
* \file call_home_ds_dnld.c
* \brief APIs to download DS from SCH
*
*  Implementation for APIs to download DS from SCH
*
* March 2011, Long Yang
*
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
* All rights reserved.
*----------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_dnld.c
No license file was found, but licenses were detected in source scan.

```
/*!
```

```
* \file ch_client_database.c
* \brief Client database source
*
* Client database source
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_client_database.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_update_req.h
* \brief Provide functionality for DS download request build
*
* Provide functionality for DS download request build
*
* Copyright (c) 2005, 2007-2008, 2010-2011, 2015 by cisco Systems, Inc.
* All rights reserved.
*
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_update_req.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_nvconfig.h
*
* \brief APIs for call-home nvconfig load/save
*
* APIs for call-home nvconfig load/save
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_nvconfig.h

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

/*!
* \file ch_build_msg.h
* \brief Build msg related definitions
*
* Build msg related definitions
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_build_msg.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_backend_status_common.h
* \brief call-home definition for device backend status
*
* call-home definition for device backend status
*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_backend_status_common.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ds_api_public.h
* \brief DS public API interface
*
* DS public API interface
* These APIs are provide for call outside of DS
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/ch_ds_api_public.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em_db_event_throttle.c
* \brief Call-home event manager, event throttle part
*
* Event throttle part in EM
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch_em_db_event_throttle.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em_mgr.c
* \brief call-home event-manage MGR layer
*
* Call-home event-manage MGR layer, provide lock mainly for event database data
* access
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch_em_mgr.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_main_lib_ver.c
* \brief GCH library main for GCH library version
*
* GCH library main for GCH library version
*
* October 2015, Qiang Zhou
```

*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_main_lib_ver.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_event.h
* \brief event API for platform implementation
*
* event related API prototypes, platform should implement them
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_event.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_curl.h
* \brief callhome platform http interface
*
* depending on libcurl, send out http msg
*
* June 2014
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_curl.h
No license file was found, but licenses were detected in source scan.

/*--
* cns_dom.c - Implementation of the dom object for the xml parser
*
* September 2006
*
* Copyright (c) 2006-2009, 2011, 2015 by cisco Systems, Inc.

* All rights reserved.
*--
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/fh_xml_dom.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_event_api.c
* \brief GCH event related library API definitions
*
* GCH event related library API definitions
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_event_api.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ds_api_public.c
* \brief DS public API interface
*
* DS public API interface.
* These APIs are provide for call outside of DS.
*
* December 2014, Qiang Zhou
*
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/ch_ds_api_public.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_event_throttle.h
* \brief Call-home platform event throttle functionality
*
* Call-home platform event throttle functionality
*
* December 2014, Qiang Zhou

*
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_event_throttle.h
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_file.h
* \brief Provide file I/O API related definitions
*
* Provide file I/O API related definitions
*
* March 2011
*
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_file.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_cli_server.c
* \brief GCH cli ipc server instance
*
* GCH cli ipc server instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_cli_server.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_util.h
* \brief call-home lib utility
*
* call-home lib debug/utility

*
* Oct 2014
*
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* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_util.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_ipc_client_util.c
* \brief Util APIs for GCH IPC client instance
*
* Util APIs for GCH IPC client instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_ipc_client_util.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_mgr.h
* \brief define call-home MGR APIs
*
* define call-home MGR APIs
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_mgr.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ha.h
* \brief GCH HA infra PI part
*

* GCH HA infra PI part
*
* April 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ha/include/ch_ha.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_backend_status.h
* \brief Internal definitions for device backend status
*
* Internal definitions for device backend status
*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_backend_status.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_cron_entry.c
* \brief APIs to handle cron string
*
* APIs to handle cron string, port from EEM. Made some modification on coding
* convention part.
*
* August 2014, Qiang Zhou
*
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* Paul Vixie   <paul@vix.com>   uunet!decwrl!vixie!paul
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch_cron_entry.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_sl_dummy.c
* \brief Dummy API for SL, to keep unified code between proc & lib version
*
* Dummy API for SL
*
* July 2016, Qiang Zhou
*
* Copyright (c) 2016 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_sl_dummy.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc.h
* \brief GCH ipc subsystem APIs
*
* GCH ipc subsystem APIs
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch_ipc.h
No license file was found, but licenses were detected in source scan.

/*!

```
* \file ch_lib_event.c
* \brief GCH event client instance
*
* GCH event client instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_event.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em_core.c
* \brief Call-home event manager core file
*
* Call-home event manager core file
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch_em_core.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_sl.c
* \brief GCH ipc sl client instance
*
* GCH ipc sl client instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_sl.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em_mgr.h
* \brief define call-home event-manage MGR APIs
*
* define call-home event-manage MGR APIs
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em_mgr.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_pf_transport.c
* \brief Provide http transport APIs
*
* Provide http transport APIs
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_transport.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_xml_parser.c
* \brief Translate update response xml to core database structure
*
* Translate update response xml to core database structure
*
* May 2011, Chenqi Wang
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-

home/ds/src/call_home_ds_xml_parser.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_util.c
* \brief call-home lib utility
*
* call-home lib debug/utility
*
* Oct 2014
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_util.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em.h
* \brief Event manager commonly used definition
*
* Event manager commonly used definition
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_debug.h
* \brief call-home lib debug APIs
*
* call-home lib debug APIs
*
* June 2015
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/include/ch_lib_debug.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_statistics.h
* \brief define call-home statistics related
*
* define call-home statistics DB operation related
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_statistics.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_test_lib_config_api.c
* \brief Sanity test on GCH lib config APIs
*
* Sanity test on GCH lib config APIs
*
* Nov 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/test/ch_test_lib_api.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_pf_event_expand.h
* \brief Provide support for PD event expand part
*
* Provide support for PD event expand part
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_event_expand.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_client_mgr.h
* \brief Client MGR header file
*
* Client MGR header file
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_client_mgr.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_db_act_pri.h
* \brief Provide DS action related definitions
*
* Provide DS action related definitions
*
* March 2011, Long Yang
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_db_act_pri.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_statistics_util.c
* \brief Provide statistics related utility APIs
*
* Provide statistics related utility APIs
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
```

```
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_statistics_util.c
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------
* fh_xml_parser.c - Implementation of the xml parser object for the
*                   xml parser.
*
* September 2006
*
* Copyright (c) 2006-2011, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/fh_xml_parser.c
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------
* cns_iterator.c - Implementation of the iterator object for the
*                  xml parser.
*
* Septermber 2006
*
* Copyright (c) 2006-2009, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/fh_xml_iterator.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_event.h
* \brief define call-home event related structures
*
* define structures for interaction between call-home core and event manager
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_event.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_event.h
* \brief GCH publish event related library APIs
*
* GCH publish event related library APIs
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_event.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_filter_action_output.c
* \brief Provide library API to filter action output
*
* Mainly to provide API to filter IOS-like running config
*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_filter_action_output.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_events.c
* \brief Provide DS event related APIs
*
* Provide DS event related APIs
*
* March 2011,
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
```

*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_events.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_mgr.c
* \brief DS manager APIs(access with critical section protection)
*
* DS manager APIs(access with critical section protection)
*
* May 2011, Long Yang
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_mgr.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_dnld_pri.h
* \brief Definitions for DS download
*
* Definitions for DS download
*
* May 2011, Long Yang
*
* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_dnld_pri.h
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_debug.h
* \brief Wrapper layer for DS_DBG
*
* Wrapper layer for DS_DBG
*
* January 2015, Qiang Zhou
*

* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_debug.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_common_util.c
* \brief IPC util APIs shared between client & server
*
* IPC util APIs shared between client & server. Note, as debug API isn't the
* same for client & server, no debug trace is added in this file.
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_common_util.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_dummy.c
* \brief GCH ipc dummy
*
* GCH ipc dummy definitions for GCH library version
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_dummy.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ds.h
* \brief common DS definitions
*
* common DS definitions

*
* January 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_ds.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_debug.h
* \brief define call-home debug utilities
*
* define call-home debug utilities
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_debug.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_backend_status.c
* \brief Get device backend status
*
* Get device backend status
*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_backend_status.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_build_xml_msg.c
* \brief contain lib code to build a XML msg
*

* Define lib code to build a XML msg. Most of the code is ported from IOS base
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_build_xml_msg.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_util.h
* \brief call-home lib internal utility APIs
*
* call-home lib private utility APIs, only for call-home internal use
*
* June 2015
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/include/ch_lib_util.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_request_code.h
* \brief GCH ipc request code definition
*
* GCH ipc request code definition
*
* October 2015
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch_ipc_request_code.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_ca_content.h

```
* \brief define ca chain for https
*
* ca chain works for tools.cisco.com, tools-dev.cisco.com,
* tools-stage.cisco.com and elo-elm5.cisco.com
*
* the first 3 works for tools.cisco.com
* the 4th for tools-dev and tools-stage
* the last 3 works for elo-elm5.cisco.com
*
* July 2014
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_ca_content.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_profile_common.h
* \brief profile commonly used definitions
*
* profile commonly used definitions
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_profile_common.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_filter_action_output.h
* \brief Provide library API to filter action output
*
* Library API prototype to filter action output
*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_filter_action_output.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_pf_action_stub.c
* \brief Provide API to run GCH event actions
*
* Provide API to run GCH event actions
*
* November 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_action_stub.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_actions.h
* \brief Provide DS action related APIs' prototype
*
* Provide DS action related APIs' prototype
*
* March 2011, Long Yang
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_actions.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em_database.h
* \brief Call-home event manager database related
*
* Call-home event manager database related
*
* July 2014, Qiang Zhou
*
```

* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em_database.h
No license file was found, but licenses were detected in source scan.

/*--
* fh_xml_parser.h - Header file for the EEM xml parser
*
* September 2006
*
* Copyright (c) 2006-2009, 2011, 2015 by cisco Systems, Inc.
* All rights reserved.
*--
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/fh_xml_parser.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_trustpool.h
* \brief api of trustpool
*
* functions of trustpool
* 1. auto download cisco trustpool bundle;
* 2. customer can specify private bundle;
*
* Sep 2015
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_trustpool.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_main_proc_ver.h
* \brief call-home main header for GCH proc version
*
* call-home main header for GCH proc version
*

* Nov 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_main_proc_ver.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_em_timer.c
* \brief Infrastructure for event manager timer
*
* Infrastructure for event manager timers
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch_em_timer.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_rate_limit.h
* \brief Define rate limit related
*
* Define rate limit related
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_rate_limit.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_em_generic.h
* \brief Event manager generic definitions
*

* Event manager generic definitions
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em_generic.h
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_util.c
* \brief Provide DS utility functions
*
* Provide DS utility functions
*
* May 2011, Long Yang
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_util.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_em.h
* \brief Prototypes for wrapper APIs related with EM
*
* Prototypes for wrapper APIs related with EM
*
* March 2011, Long Yang
*
* Copyright (c) 2011-2012, 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_em.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_db_profile.c

```
* \brief Maintain call-home profiles
*
* Maintain all call-home profiles, provide interface for profile data
* manipulation
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_db_profile.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_ipc_main.c
* \brief GCH ipc subsystem main
*
* GCH ipc subsystem main
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_main.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_event_spec.c
* \brief Provide DS raw event spec translation
*
* contains entry point and common functions for ds event spec translation.
*
* May 2011,
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_event_spec.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_pf_config.h
* \brief define call-home PD configurations
*
* This header file defines call-home platform-dependent configurations
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_config.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_pf_main.c
* \brief Define pf main, like API to init pf side
*
* Define platform supported event groups
*
* November 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_main.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_actions.c
* \brief Provide DS action related APIs
*
* Provide DS action related APIs
*
* March 2011,
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_actions.c

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

/*!
* \file ch_lib_config_api.h
* \brief define APIs to get/set call-home
*
* Define get/set API to config call-home and retrieve call-home
* configuration/runtime data.
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_config_api.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_util.c
* \brief Provide utility APIs
*
* Provide utility APIs
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_util.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_mail_server.h
* \brief define call-home mail server structure
*
* define call-home mail server structure
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_mail_server.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_global.h
* \brief DS global definitions
*
* DS global definitions
*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_global.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_client_resp_parse.c
* \brief Client response parse implementation
*
* Client response parse implementation
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_client_resp_parse.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_main.h
* \brief DS main header file
* DS main header file
*
* Nov. 2011,
*
* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_main.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_requisite.h
* \brief Provide DS pre-requisite and post-requisite related APIs' prototype
*
* Provide DS pre-requisite and post-requisite related APIs' prototype
*
* March 2014, Diankun Zhang
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_requisite.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em_event_expand.h
* \brief Provide support for event expand part
*
* Provide support for event expand part
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em_event_expand.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_pf_event_expand.c
* \brief Provide support for PD event expand part
*
* Provide support for PD event expand part
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
```

* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_event_expand.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_server.h
* \brief GCH ipc server APIs
*
* GCH ipc server APIs
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch_ipc_server.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_signature_verify.h
* \brief Provide APIs to do signature verification.
*
* Provide APIs to do signature verification, like DS signature verification.
*
* January 2015, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_signature_verify.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_cli.c
* \brief GCH ipc cli client instance
*
* GCH ipc cli client instance
*
* October 2015, Qiang Zhou

*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_cli.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_client_resp_parse.h
* \brief Provide APIs to parse response from SCH for client
*
* Provide APIs to parse response from SCH for client
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_client_resp_parse.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_notify.h
* \brief Call-home notify related definitions
*
* Call-home notify related definitions
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_notify.h
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_requisite.c
* \brief Provide DS pre-requisite and post-requisite related APIs
* Provide DS pre-requisite and post-requisite related APIs
*
* March 2014,

*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_requisite.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_em_db_generic.c
* \brief Call-home event manager database
*
* Call-home event manager database
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch_em_db_generic.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_sl_ipc_server.h
* \brief smart license ipc server related include file
*
* smart license ipc server related include file
*
* July 2014
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_sl_ipc_server.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_server_util.h
* \brief Util APIs for GCH IPC server instance
*

* Util APIs for GCH IPC server instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch_ipc_server_util.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_ipc_client.h
* \brief GCH ipc client instance APIs
*
* GCH ipc client instance APIs
*
* October 2015
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/include/ch_lib_ipc_client.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_config_api.c
* \brief define APIs to get/set call-home
*
* Define get/set API to config call-home and retrieve call-home
* configuration/runtime data.
*
* October 2015
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_config_api.c
No license file was found, but licenses were detected in source scan.

/*!

* \file unsupported_list
* \brief
*
*
* December 2014
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
#1. Event detection in script

#2. Event qualifier in script

#3. v1 msg suppression

#4. run command with time limit

#5. run command with expect string

#6. run a single CLI with multiply lines of config in a vty

#7. MSG element

#8. DS periodic update

#9. DS file bring up

#10. DS script

#11. DS to change Event Group actions

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/unsupported_list
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_transport.h
* \brief platform transport APIs
*
* Define platform transport APIs, like http/email msg send
*
* or get one specific module info.
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_transport.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_client_sl.c
* \brief Provide lib APIs for SL client
*
* Provide lib APIs for SL client
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_client_sl.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_client_database.h
* \brief Client database header file
*
* Client database header file
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_client_database.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_nxos_ha.c
* \brief NXOS HA part
*
* NXOS HA part
*
* May 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.

*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/test/ch_nxos_ha.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_shim.h
* \brief Shim layer header file
*
* Shim layer header file to cover platform difference
*
* January 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/include/ch_shim.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_profile.h
* \brief define call-home profile
*
* define call-home profile, and save all profile data
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_profile.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_main_process_ver.c
* \brief GCH library main for GCH process version
*
* GCH library main for GCH process version
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.

* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_main_process_ver.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_formatter_xml.h
*
* \brief Definitions for XML message formattting
*
* Definitions for XML message formattting, porting from IOS
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_formatter_xml.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_shim_client_api.h
* \brief add shim header, cover the difference of platforms/OS
*
* add shim header, cover the difference of platforms/OS
*
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/include/ch_shim_client_api.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_em_event_expand.c
* \brief Provide support for event expand part
*
* Provide support for event expand part
*

* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch_em_event_expand.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_profile.c
* \brief Define call-home platform profile param
*
* Define call-home platform profile param
*
* November 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_profile.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_db_rate_limit.c
* \brief Implement rate limit functionality
*
* Implement rate limit functionality
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_db_rate_limit.c
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_main.h
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_script.h
* \brief Provide DS script related definitions
*

* Provide DS script related definitions
*
* May 2011,
*
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_script.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_global.h
* \brief call-home global definitions
*
* call-home global definitions
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_global.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_client_api.h
* \brief Client API prototypes
*
* Client API prototypes
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_client_api.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_event_server.c
* \brief GCH event ipc server instance

*
* GCH event ipc server instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_event_server.c
No license file was found, but licenses were detected in source scan.

/*!
* \file cron.h
* \brief CRON related definitions
*
* CRON related definitions
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
/* Copyright 1988,1990,1993,1994 by Paul Vixie
* All rights reserved
*
* Distribute freely, except: don't remove my name from the source or
* documentation (don't take credit for my work), mark your changes (don't
* get me blamed for your possible bugs), don't alter or remove this
* notice. May be sold if buildable source is provided to buyer. No
* warrantee of any kind, express or implied, is included with this
* software; use at your own risk, responsibility for damages (if any) to
* anyone resulting from the use of this software rests entirely with the
* user.
*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie   <paul@vix.com>   uunet!decwrl!vixie!paul
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/cron.h
No license file was found, but licenses were detected in source scan.

/*!

* \file ch_database.h
* \brief define call-home database
*
* define call-home database
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_database.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_config.c
* \brief Define platform configuration for GCH
*
* Define platform configuration for GCH
*
* November 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_config.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_shim.c
* \brief add shim layer, cover the difference of platforms/OS
*
* add shim layer, cover the difference of platforms/OS
*
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/linux/ch_shim_gvd.c
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/linux/ch_shim.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_test_main.h
* \brief Call-home test main header file
*
* Call-home test main header file
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/test/ch_internal_test_main.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_event_common.h
* \brief define platform event related structures
*
* define structures for platform event group, platform event publish,
* event spec, and event actions.
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_event_common.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_nvconfig.c
* \brief Generate DS nvconfig string and parse DS nvconfig
*
* Generate DS nvconfig string and parse DS nvconfig
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-

home/ds/src/call_home_ds_nvconfig.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_debug.c
* \brief Call-home debug facility
*
* Call-home debug facility
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_debug.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em_ipc_server.h
* \brief Event manager ipc server include file
*
* Event manager ipc server include file
*
* July 2014
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em_ipc_server.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_db_event.c
* \brief Maintain active profile events and event groups
*
* Maintain all active profile events, and all platform supported event groups
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_db_event.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_statistics_util.h
* \brief define call-home statistics utilities
*
* define call-home statistics utilities
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_statistics_util.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_event_throttle.c
* \brief Sample code for call-home platform event throttle functionality
*
* Sample code for call-home platform event throttle functionality
* Porting NOTE:
* The sample code only compares event type/subtype/description to decide
* whether two events are the same. But there could be such case that two events
* with similar description, but actually they are the same. For this case,
* event throttle could not work efficiently. And you need fill you own code to
* handle this situation.
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_event_throttle.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_linux_util.c
* linux call-home util
*

```
* linux call-home util
*
* Feb 2015, Fucheng Xu
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/linux/ch_linux_util.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_event_spec.h
* \brief DS event spec translation header file
*
* This header file includes neccessary data structure and function prototypes
* for call home DS event spec translation subsystem
*
* March 2011
*
* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_event_spec.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_pf_nvconfig.h
* \brief define APIs to load/save call-home config
*
* Define APIs to load call-home configuration from disk to memory, and save it
* from memory to disk.
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_nvconfig.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_db_generic.c
* \brief Maintain call-home database(except profile)
*
* Maintain call-home database, excpet profiles
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_db_generic.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_smtp.c
* \brief callhome platform smtp related handling
*
* depending on libcurl, implement smtp related function
*
* June 2014
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_smtp.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_linux_util.h
* linux callhome util
*
* linux callhome util
*
* Feb 2015, Fucheng Xu
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/linux/ch_linux_util.h

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

/*!
* \file ch_cli_ipc_server.h
* \brief call-home cli ipc server service IPC layer
*
* Call-home CLI IPC layer, provide IPC server side service
*
* July 2014
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_cli_ipc_server.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_notify.c
* \brief Call-home notify part, for event/ondemand
*
* Call-home notify part, for event/ondemand
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_notify.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_main.c
* \brief Call-home DS main
*
* DS Main, do 1. main process creation
* 2. timer event dispatch
* 3. msg dispatch
*
* May 2011,
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_main.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_global.h
* \brief define call-home PD global macro
*
* This header file defines call-home platform-dependent global macro
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_global.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ondemand.h
* \brief Provide call-home ondemand API prototypes
*
* Provide call-home ondemand API prototypes
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_ondemand.h
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_database.c
* \brief DS database APIs
*
* DS database APIs.
*
* May 2011,
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.

*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_database.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_mgr.h
* \brief MGR interfaces for database access APIs
*
* MGR interfaces for database access APIs
*
* March 2011, Long Yang
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_mgr.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_profile.h
* \brief define call-home profile on platform side
*
* Define call-home profile for platform side, like TAC profile configuration
* interface.
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_profile.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_client_mgr.c
* \brief Client MGR file
*
* Client MGR file
*
* August 2014, Qiang Zhou

*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_client_mgr.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_update_rsp_parse.c
* \brief Extract download info from update response
*
* Extract download info from update response
*
* May 2011, Chenqi Wang
*
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_update_rsp_parse.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_statistics_common.h
* \brief define call-home statistics structures
*
* define call-home statistics structures
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_statistics_common.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_mgr.c
* \brief call-home MGR layer
*
* Call-home MGR layer, provide lock mainly for database/profile/event data

```
* access
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_mgr.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em_core.h
* \brief Event manager core include file
*
* Event manager core include file
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em_core.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_client_api.c
* \brief Client API implementation
*
* Client API implementation
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_client_api.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_sl.h
* \brief GCH library API to init GCH SL client
```

*
* GCH library API to init GCH SL client
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_sl.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_event_group.c
* \brief Define platform supported event groups
*
* Define platform supported event groups
*
* November 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_event_group.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ondemand.c
* \brief Call-home ondemand run suite
*
* Provide call-home ondemand functionality like ondemand msg send, ondemand
* test on call-home profile.
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_ondemand.c
No license file was found, but licenses were detected in source scan.

/*!

* \file ch_pf_sys_info_stub.c
* \brief Provide APIs to get platform system info
*
* Provide APIs to get platform system info
*
* November 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_sys_info_stub.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_trustpool.c
* \brief api of trustpool
*
* functions of trustpool
* 1. auto download cisco trustpool bundle;
* 2. customer can specify private bundle;
*
* Sep 2015
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_trustpool.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_file.c
* \brief Provide file I/O APIs
*
* Provide file I/O APIs
*
* May 2011,
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_file.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_test_main.c
* \brief Call-home test main file
*
* Call-home test main file
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/test/ch_internal_test_main.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_main_lib_ver.h
* \brief call-home main header for GCH lib version
*
* call-home main header for GCH lib version
*
* Nov 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_main_lib_ver.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_xml_parser.h
* \brief Call Home DS xml parser defination
*
* Call Home DS xml parser defination
*
* April 2011, Chenqi Wang
*
* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_xml_parser.h
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_script.c
* \brief Provide DS script related APIs
*
* Provide DS script related APIs
*
* May 2011,
*
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_script.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ha.c
* \brief GCH HA infra PI part
*
* GCH HA infra PI part
*
* April 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ha/src/ch_ha.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_db_pri.h
* \brief DS database related definitions
*
* database related definitions
*
* March 2011, Long Yang
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.

*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_db_pri.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ondemand_common.h
* \brief define call-home ondemand common related
*
* define call-home ondemand common related
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_ondemand_common.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_cron_entry.h
* \brief APIs to handle cron string
*
* APIs to handle cron string
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_cron_entry.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_main.c
* \brief Call-home main file
*
* Call-home main file
*
* July 2014, Qiang Zhou

*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_main.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_client_api.h
* \brief define APIs for call-home clients
*
* define APIs for call-home clients, like sending client msg API
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_client_api.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_server_util.c
* \brief Util APIs for GCH IPC server instance
*
* Util APIs for GCH IPC server instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_server_util.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_em_timer.h
* \brief Event manager timer
*
* Event manager timer
*
* July 2014, Qiang Zhou

```
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em_timer.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_lib_ipc_client_util.h
* \brief Util APIs for GCH IPC client instance
*
* Util APIs for GCH IPC client instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/include/ch_lib_ipc_client_util.h
No license file was found, but licenses were detected in source scan.

```
/*---------------------------------------------------------------------
* cns_container.c - Implementation of the container object for the
*                   xml parser
*
* Septermber 2006
*
* Copyright (c) 2006-2009, 2015 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/fh_xml_container.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_pf_smtp.h
* \brief callhome platform smtp related handling
*
* callhome platform smtp related handling
*
```

* June 2014
*
* Copyright (c) 2014 by cisco Systems, Inc.
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_smtp.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_db_statistics.c
* \brief Maintain global & profile's statistics
*
* Maintain global & profile's statistics
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_db_statistics.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_util.h
* \brief DS utility functions
*
* DS utility functions
*
* Jun 2011, Long Yang
*
* Copyright (c) 2011-2012, 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_util.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_em_ed.h
* \brief Event manager ED
*
* Event manager ED

*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em_ed.h
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_update_req.c
* \brief Build DS download request
*
* Build DS download request
*
* May 2011, Long Yang
*
* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_update_req.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_signature_verify.c
* \brief To provide function to verify digital signature
*
* To provide function to verify digital signature
*
* May 2011, Chenqi Wang
*
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_signature_verify.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_lib_cli.h

* \brief GCH library API to init CLI client
*
* GCH library API to init CLI client
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_cli.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_signature_verify.c
* \brief Provide APIs to do signature verification.
*
* Provide APIs to do signature verification, like DS signature verification.
*
* January 2015, Qiang Zhou
*
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* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_signature_verify.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_common_util.h
* \brief IPC util APIs shared between client & server
*
* IPC util APIs shared between client & server
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch_ipc_common_util.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file cll_home_formatter_xml.c
* \brief Lib API to format a XML string
*
* Define LIB code to format a XML string. Most of the code is ported from IOS.
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
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*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_formatter_xml.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_error_string.h
* \brief call-home error string
*
* call-home error string
*
* July 2014
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
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*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_error_string.c
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_sys_info.h
* \brief define platform system info
*
* Define platform system info related structures, for both hardware based
* products and software based products.
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_sys_info.h

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

/*!
* \file ch_em_event_throttle.h
* \brief EM event throttle part functionality API
*
* EM event throttle part functionality API
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch_em_event_throttle.h
No license file was found, but licenses were detected in source scan.

/*!
* \file bitstring.h
* \brief Bit string handling MACRO
*
* Bit string handling MACRO
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
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*/
/*
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*
*      @(#)bitstring.h 8.1 (Berkeley) 7/19/93
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/bitstring.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_util.h
* \brief define call-home common utilities
*
* define call-home common utilities
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_util.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_events.h
* \brief Provide DS event related definitons
*
* Provide DS event related definitons
*
* March 2011, Long Yang
```

*
* Copyright (c) 2011-2012, 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_events.h
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_signature_verify.h
* \brief Header file for digital signature API
*
* Header file for digital signature API
*
* May 2011, Chenqi Wang
*
* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_signature_verify.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_build_text_msg.c
* \brief Provide implementation to build short/long text msg
*
* Provide implementation to build short/long text msg
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_build_text_msg.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_nvconfig.c
* \brief Sample code for call-home nvconfig implementation on PD
*

* Sample code for call-home nvconfig implementation on PD
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_nvconfig.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_pf_sys_info.h
* \brief platform system info related APIs
*
* Define platform system info related API prototypes. Like get the system info
* or get one specific module info.
*
* June 2014, Qiang Zhou
*
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_sys_info.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_db_nvconfg.c
* \brief Provide APIs to parse/generate XML string for call-home config
*
* Provide APIs to parse/generate XML string for call-home config
*
* August 2014, Qiang Zhou
*
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_db_nvconfig.c
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_debug_common.h

```
* \brief define call-home common debug flags
*
* define call-home common debug flags
*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_debug_common.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file call_home_ds_db_evt_pri.h
* \brief define DS event related structure
*
* define DS event related structure
*
* March 2011, Long Yang
*
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*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_db_evt_pri.h
No license file was found, but licenses were detected in source scan.

```
/*!
* \file ch_em_ed.c
* \brief Call-home event manager Event Detectors
*
* Call-home event manager Event Detectors, these EDs are created on
* init phase, according to the PD supported events
*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch_em_ed.c

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

/*!
* \file ch_pf_curl.c
* \brief callhome platform http interface
*
* depending on libcurl, send out http msg
*
* June 2014
*
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_curl.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_db_requisite.h
* \brief Provide DS pre-requisite and post-requisite related definition
*
* Provide DS pre-requisite and post-requisite related definition
*
* March 2014, Diankun Zhang
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_db_requisite.h
No license file was found, but licenses were detected in source scan.

/*!
* \file ch_ipc_sl_server.c
* \brief GCH sl ipc server instance
*
* GCH sl ipc server instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
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*/

Found in path(s):

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_sl_server.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_em_cb.c
* \brief Provide wrapper APIs related with EM
*
* Provide wrapper APIs related with EM, event reg/cb
*
* March 2011,
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_em_cb.c
No license file was found, but licenses were detected in source scan.

/*!
* \file call_home_ds_nvconfig.h
* \brief Generate DS nvconfig string and parse DS nvconfig
*
* Generate DS nvconfig string and parse DS nvconfig
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_nvconfig.h

1.182 bzip2 1.0.8

1.183 pycurl 7.43.0.2

1.183.1 Available under license :

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

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1.184 python3-asn1crypto 1.3.0

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1.185 hd-parm 9.58

1.186 log4cxx 0.10.0

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--><html xmlns="http://www.w3.org/1999/xhtml">
 <head>
  <title>log4cxx - Project License</title>
  <style type="text/css" media="all">
   @import url("./css/maven-base.css");
   @import url("./css/maven-theme.css");
   @import url("./css/site.css");
  </style>
  <link rel="stylesheet" href="./css/print.css" type="text/css" media="print" />
     <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
   </head>
 <body class="composite">

    <hr/>

    Last Published: 2008-03-31
                |
        Apache
        >

```
            <a href="http://logging.apache.org/" class="externalLink">Logging Services</a>
            &amp;gt;

        log4cxx
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          <div class="xright">









</div>
    <div class="clear">
      <hr/>
    </div>
  </div>
  <div id="leftColumn">
    <div id="navcolumn">









              <h5>Get log4cxx</h5>
          <ul>

  <li class="none">
                <a href="download.html">Download</a>
        </li>

  <li class="none">
                <a href="changes-report.html">Changes</a>
        </li>

  <li class="none">
            <strong>License</strong>
      </li>
        </ul>
            <h5>About log4cxx</h5>
          <ul>

  <li class="none">
```

```
            <a href="index.html">What is log4cxx?</a>
        </li>

    <li class="none">
            <a href="apidocs/index.html">API Documentation</a>
        </li>

    <li class="none">
            <a href="faq.html">FAQ</a>
        </li>
        </ul>
          <h5>Community</h5>
         <ul>

    <li class="none">
            <a href="mail-lists.html">Mailing Lists</a>
        </li>

    <li class="none">
            <a href="issue-tracking.html">Issue Tracking</a>
        </li>

    <li class="none">
            <a href="http://wiki.apache.org/logging-log4cxx" class="externalLink">Wiki</a>
        </li>
        </ul>
          <h5>Development</h5>
         <ul>

    <li class="none">
            <a href="source-repository.html">Repository</a>
        </li>

      <li class="expanded">
            <a href="">Building</a>
           <ul>
```

```
<li class="none">
            <a href="building/autotools.html">autotools</a>
    </li>

<li class="none">
            <a href="building/ant.html">Apache Ant</a>
    </li>

<li class="none">
            <a href="building/maven.html">Apache Maven 2</a>
    </li>

<li class="none">
            <a href="building/vstudio.html">Microsoft Visual Studio</a>
    </li>

<li class="none">
            <a href="building/xcode.html">Apple Xcode</a>
    </li>
       </ul>
   </li>
    </ul>
       <h5>Apache</h5>
      <ul>

<li class="none">
            <a href="http://www.apache.org" class="externalLink">Home</a>
    </li>

<li class="none">
            <a href="http://www.apache.org/foundation/sponsorship.html" class="externalLink">Sponsorship</a>
    </li>

<li class="none">
            <a href="http://www.apache.org/foundation/thanks.html" class="externalLink">Thanks</a>
    </li>

<li class="none">
            <a href="http://www.apachecon.com" class="externalLink">Conferences</a>
    </li>
    </ul>
                              <a href="http://maven.apache.org/" title="Built by Maven" class="poweredBy">
      <img alt="Built by Maven" src="./images/logos/maven-feather.png"></img>
    </a>
```

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1.187 boost 1.55.0

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[/==
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MPL
Interoperability
</h2>

    All the value based traits in this library conform to MPL's requirements for
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    Constant type: that includes a number of rather intrusive workarounds
    for broken compilers.

    Purely as an implementation detail, this means that <code class="computeroutput"><a class="link"
href="reference/integral_constant.html" title="integral_constant">true_type</code>

inherits from <code class="computeroutput">boost::mpl::true_</code>,
<code class="computeroutput">false_type</code>
inherits from <code class="computeroutput">boost::mpl::false_</code>,
and <code class="computeroutput">integral_constant<T,
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inherits from <code class="computeroutput">boost::mpl::integral_c<T,v></code>
(provided <code class="computeroutput">T</code> is not <code class="computeroutput">bool</code>)

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 <ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
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</section>
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---
//
//

```
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//
// See http://www.boost.org/libs/interprocess for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};
```

```
template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
  static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
     bool C
   , typename T1
   , typename T2
   >
struct if_c
{
   typedef T1 type;
};

template<
     typename T1
   , typename T2
   >
struct if_c<false,T1,T2>
{
   typedef T2 type;
};

template<
     typename T1
   , typename T2
```

```
  , typename T3
  >
struct if_
{
 typedef typename if_c<0 != T1::value, T2, T3>::type type;
};


template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
 template<class OtherPair>
 const typename Pair::first_type& operator()(const OtherPair& x) const
 {  return x.first;   }

 const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
 {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
 typedef T type;
 const T& operator()(const T& x) const
 { return x; }
};

template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
 static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
 static const std::size_t value = 0;
};
```

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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//
// See http://www.boost.org/libs/container for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if defined(_MSC_VER)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;
  operator bool() const { return bool_::value; }
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
```

```
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
  enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
     bool C
   , typename T1
   , typename T2
   >
struct if_c
{
   typedef T1 type;
};

template<
     typename T1
   , typename T2
   >
```

```
struct if_c<false,T1,T2>
{
   typedef T2 type;
};

template<
     typename T1
  , typename T2
  , typename T3
  >
struct if_
{
 typedef typename if_c<0 != T1::value, T2, T3>::type type;
};


template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
 template<class OtherPair>
 const typename Pair::first_type& operator()(const OtherPair& x) const
 {  return x.first;   }

 const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
 {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
 typedef T type;
 const T& operator()(const T& x) const
 { return x; }
};

template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
 static const std::size_t value = 0;
```

```
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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//
// See http://www.boost.org/libs/intrusive for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

```
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
  static const bool value = C_;
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T>{};

template<class F, class Param>
struct apply
{
  typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
```

```
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };
  static true_t dispatch(U);
  static false_t dispatch(...);
  static const T &trigger();
  public:
  static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
     bool C
   , typename T1
   , typename T2
   >
struct if_c
{
   typedef T1 type;
};

template<
     typename T1
   , typename T2
   >
struct if_c<false,T1,T2>
{
   typedef T2 type;
};

template<
     typename C
   , typename T1
   , typename T2
   >
struct if_
{
  typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
     bool C
   , typename F1
   , typename F2
   >
struct eval_if_c
   : if_c<C,F1,F2>::type
{};
```

```
template<
    typename C
  , typename T1
  , typename T2
  >
struct eval_if
  : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
 typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false; };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)()>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
```

```
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{  static const bool value = true;  };

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
```

```
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false; };

template<typename T>
```

```
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;   };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
  char c;
  T t;
  alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
 static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
 static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
 static const bool value = false;
};

template <typename T>
struct is_same<T, T>
{
 static const bool value = true;
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
```

```
{  typedef  T type;   };

template<typename T>
struct remove_const<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv
{  typedef  T type;   };

template<typename T>
struct remove_cv<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;   };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;   };

template<class T>
struct remove_reference
{
 typedef T type;
};

template<class T>
struct remove_reference<T&>
{
 typedef T type;
};

template<class Class>
class is_empty_class
{
 template <typename T>
 struct empty_helper_t1 : public T
 {
   empty_helper_t1();
   int i[256];
 };

 struct empty_helper_t2
 { int i[256]; };

 public:
```

```
  static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
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]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements
for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type]: that includes a number of rather intrusive
workarounds for broken compilers.

Purely as an implementation detail, this
means that `__true_type` inherits from [@../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`], `__false_type` inherits
from [@../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`], and `__integral_constant<T, v>` inherits from
[@../../../../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

[endsect]
[/
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```
*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
  const fs::path& root;
  const fs::path& file;
  split_path(const fs::path& r, const fs::path& f)
     : root(r), file(f){}
private:
  split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
  return os;
}

std::string make_link_target(const std::string& s)
{
  // convert an arbitrary string into something suitable
  // for an <a> name:
  std::string result;
  for(unsigned i = 0; i < s.size(); ++i)
  {
     result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
  }
  return result;
}


void bcp_implementation::output_license_info()
```

```
{
 std::pair<const license_info*, int> licenses = get_licenses();

 std::map<int, license_data>::const_iterator i, j;
 i = m_license_data.begin();
 j = m_license_data.end();

 std::ofstream os(m_dest_path.string().c_str());
 if(!os)
 {
   std::string msg("Error opening ");
   msg += m_dest_path.string();
   msg += " for output.";
   std::runtime_error e(msg);
   boost::throw_exception(e);
 }
 os <<
   "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
   "<html>\n"
   "<head>\n"
   "<title>Boost Licence Dependency Information";
 if(m_module_list.size() == 1)
 {
   os << " for " << *(m_module_list.begin());
 }
 os <<
   "</title>\n"
   "</head>\n"
   "<body>\n"
   "<H1>Boost Licence Dependency Information";
 if(m_module_list.size() == 1)
 {
   os << " for " << *(m_module_list.begin());
 }
 os <<
   "</H1>\n"
   "<H2>Contents</h2>\n"
   "<pre><a href=\"#input\">Input Information</a>\n";
 if(!m_bsl_summary_mode)
   os << "<a href=\"#summary\">Licence Summary</a>\n";
 os << "<a href=\"#details\">Licence Details</a>\n";

 while(i != j)
 {
   // title:
   os << "   <A href=\"#" << make_link_target(licenses.first[i->first].license_name)
      << "\">" << licenses.first[i->first].license_name << "</a>\n";
   ++i;
```

```
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"
  "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
  os <<
  "Moving to the Boost Software License...\n"
  "  <a href=\"#bsl-converted\">Files that can be automatically converted to the Boost Software License</a>\n"
  "  <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
  "  <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
  "  <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
  "<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
  "<a href=\"#depend\">File Dependency Information</a>\n"
  "</pre>";

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
  os << "<P>The following files were scanned for boost dependencies:<BR>";
else
  os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
  os << *si << "<BR>";
  ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
  "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
  os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
```

```
<< "</P>\n";
  }

  //
  // output each license:
  //
  i = m_license_data.begin();
  j = m_license_data.end();
  if(!m_bsl_summary_mode)
  {
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence Summary</h2>\n";
    while(i != j)
    {
      // title:
      os <<
        "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
      // license text:
      os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
      // Copyright holders:
      os << "<P>This license is used by " << i->second.authors.size()
        << " authors and " << i->second.files.size()
        << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
      os << "</P></BLOCKQUOTE>\n";
      ++i;
    }
  }
  //
  // and now the details:
  //
  i = m_license_data.begin();
  j = m_license_data.end();
  int license_index = 0;
  os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
  while(i != j)
  {
    // title:
    os <<
      "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
      << "\"></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
      // Copyright holders:
      os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
```

```
holders:</P>\n<BLOCKQUOTE><P>";
      std::set<std::string>::const_iterator x, y;
      x = i->second.authors.begin();
      y = i->second.authors.end();
      while(x != y)
      {
        os << *x << "<BR>\n";
        ++x;
      }
      os << "</P></BLOCKQUOTE>\n";
      // Files using this license:
      os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
      std::set<fs::path, path_less>::const_iterator m, n;
      m = i->second.files.begin();
      n = i->second.files.end();
      while(m != n)
      {
        os << split_path(m_boost_path, *m) << "<br>\n";
        ++m;
      }
      os << "</P></BLOCKQUOTE>\n";
    }
    else
    {
      os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
      os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
    }
    ++license_index;
    ++i;
  }
  //
  // Output list of files not found to be under license control:
  //
  os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
  std::set<fs::path, path_less>::const_iterator i2, j2;
  i2 = m_unknown_licenses.begin();
  j2 = m_unknown_licenses.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
  }
  os << "</p></BLOCKQUOTE>";
  //
  // Output list of files with no found copyright holder:
```

```
  //
  os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
     "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
  i2 = m_unknown_authors.begin();
  j2 = m_unknown_authors.end();
  while(i2 != j2)
  {
     os << split_path(m_boost_path, *i2) << "<br>\n";
     ++i2;
  }
  os << "</p></BLOCKQUOTE>";
  if(!m_bsl_summary_mode)
  {
     //
     // Output list of files that have been moved over to the Boost
     // Software License, along with enough information for human
     // verification.
     //
     os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
        << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
     if (!m_converted_to_bsl.empty())
     {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
           ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
                      ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
           os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
              << "</tt><br>\n<table border=\"1\">\n  <tr>\n    <td><pre>"
              << i->second.first << "</pre></td>\n    <td><pre>"
              << i->second.second << "</pre></td>\n  </tr>\n</table>\n";
           ++i;
           ++file_num;
        }
     }
     //
     // Output list of files that could be moved over to the Boost Software License
     //
     os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
     "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
     i2 = m_can_migrate_to_bsl.begin();
     j2 = m_can_migrate_to_bsl.end();
```

```
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>\n";
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files that can not be moved over to the Boost Software License
    //
    os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
    "<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>\n";
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of authors that we need permission for to move to the BSL
    //
    os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
      "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>\n"));
    os << "</p></BLOCKQUOTE>";
    //
    // output a table of copyright information:
    //
    os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
    std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
    ad = m_author_data.begin();
    ead = m_author_data.end();
    while(ad != ead)
    {
      os << "<tr><td>" << ad->first << "</td><td>";
      std::set<fs::path, path_less>::const_iterator fi, efi;
      fi = ad->second.begin();
      efi = ad->second.end();
      while(fi != efi)
      {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
```

```
    }
    os << "</td></tr>\n";
    ++ad;
  }
  os << "</table>\n";
}

//
// output file dependency information:
//
os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
  bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
  bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
  bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
  bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
                ie = m_converted_to_bsl.end();
  while(i != ie)
  {
    bad_paths.insert(i->first);
    ++i;
  }
  fi = bad_paths.begin();
  efi = bad_paths.end();
  os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
  os << split_path(m_boost_path, *fi);
  dep = m_dependencies.find(*fi);
  last_dep = m_dependencies.end();
  std::set<fs::path, path_less> seen_deps;
  if (dep != last_dep)
    while(true)
    {
      os << " -> ";
      if(fs::exists(m_boost_path / dep->second))
        os << split_path(m_boost_path, dep->second);
```

```
        else if(fs::exists(dep->second))
          os << split_path(fs::path(), dep->second);
        else
          os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
          {
            os << " <I>(Circular dependency!)</I>";
            break; // circular dependency!!!
          }
        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
          break;
      }
    os << "\n";
    ++fi;
  }
  os << "</pre></BLOCKQUOTE>\n";

  os << "</body></html>\n";

  if(!os)
  {
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
  }

}
```

1.188 python-click 7.1.2

1.188.1 Available under license :

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

```
# binary only, patch it back to the system, and then use a wrapper
```

Found in path(s):
* /opt/cola/permits/1096634052_1602160862.29/0/click-7-1-2-tar-gz/click-7.1.2/src/click/_compat.py
No license file was found, but licenses were detected in source scan.

```
import io
import re
```

```
from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
  readme = f.read()

with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
  version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)

setup(
  name="click",
  version=version,
  url="https://palletsprojects.com/p/click/",
  project_urls={
    "Documentation": "https://click.palletsprojects.com/",
    "Code": "https://github.com/pallets/click",
    "Issue tracker": "https://github.com/pallets/click/issues",
  },
  license="BSD-3-Clause",
  maintainer="Pallets",
  maintainer_email="contact@palletsprojects.com",
  description="Composable command line interface toolkit",
  long_description=readme,
  packages=find_packages("src"),
  package_dir={"": "src"},
  include_package_data=True,
  python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
  classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 3",
  ],
)
```

Found in path(s):
* /opt/cola/permits/1096634052_1602160862.29/0/click-7-1-2-tar-gz/click-7.1.2/setup.py
No license file was found, but licenses were detected in source scan.

Including attribution to #612

Found in path(s):
* /opt/cola/permits/1096634052_1602160862.29/0/click-7-1-2-tar-gz/click-7.1.2/tests/test_formatting.py
No license file was found, but licenses were detected in source scan.

.. _contrib:

=============
click-contrib
=============

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/1096634052_1602160862.29/0/click-7-1-2-tar-gz/click-7.1.2/docs/contrib.rst
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.2
Name: click
Version: 7.1.2
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://click.palletsprojects.com/
Project-URL: Code, https://github.com/pallets/click
Project-URL: Issue tracker, https://github.com/pallets/click/issues
Description: \$ click_
    ==========

    Click is a Python package for creating beautiful command line interfaces
    in a composable way with as little code as necessary. It's the "Command
    Line Interface Creation Kit". It's highly configurable but comes with
    sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun
while also preventing any frustration caused by the inability to
implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

Install and update using `pip`_:

.. code-block:: text

    $ pip install -U click

.. _pip: https://pip.pypa.io/en/stable/quickstart/

A Simple Example

.. code-block:: python

    import click

    @click.command()
    @click.option("--count", default=1, help="Number of greetings.")
    @click.option("--name", prompt="Your name", help="The person to greet.")
    def hello(count, name):
        """Simple program that greets NAME for a total of COUNT times."""
        for _ in range(count):
            click.echo(f"Hello, {name}!")

    if __name__ == '__main__':
        hello()

.. code-block:: text

    $ python hello.py --count=3
    Your name: Click
    Hello, Click!
    Hello, Click!

Hello, Click!

Donate

The Pallets organization develops and supports Click and other popular
packages. In order to grow the community of contributors and users, and
allow the maintainers to devote more time to the projects, `please
donate today`_.

.. _please donate today: https://palletsprojects.com/donate

Links

- Website: https://palletsprojects.com/p/click/
- Documentation: https://click.palletsprojects.com/
- Releases: https://pypi.org/project/click/
- Code: https://github.com/pallets/click
- Issue tracker: https://github.com/pallets/click/issues
- Test status: https://dev.azure.com/pallets/click/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*

Found in path(s):
* /opt/cola/permits/1096634052_1602160862.29/0/click-7-1-2-tar-gz/click-7.1.2/src/click.egg-info/PKG-INFO
* /opt/cola/permits/1096634052_1602160862.29/0/click-7-1-2-tar-gz/click-7.1.2/PKG-INFO
No license file was found, but licenses were detected in source scan.

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Copyright 2002-2006 Python Software Foundation. All rights reserved.

Found in path(s):
* /opt/cola/permits/1096634052_1602160862.29/0/click-7-1-2-tar-gz/click-7.1.2/src/click/parser.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1096634052_1602160862.29/0/click-7-1-2-tar-gz/click-7.1.2/LICENSE.rst

1.189 python-constantly 15.1.0

1.189.1 Available under license :

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1.190 iana-etc 2.30

1.190.1 Available under license :

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.*/.*\.am$
.*\.(yml|md|y|l|txt|xml|xsd|log|key|crt|files|in|conf\.example|gradle|mk|supp|sub|guess|list|pc\.cmake)$
\..*rc$
.*/[^/]+-grammar\.[ch]$
(.*/)?(README|\.gitignore|pylintrc)$
lib/ivykis
lib/jsonc
lib/eventlog
modules/afamqp/rabbitmq-c
modules/afmongodb/mongo-c-driver
modules/java/org_syslog_ng_[^./_-]+\.h$
modules/(afmongodb|afamqp)/dummy\.c$
dev-utils/plugin_skeleton_creator/plugin_template.*
(lib|modules)/.*\.conf$
dist\.conf$
.*/\.gradle
scl/syslog-ng\.conf$
tests/copyright/policy$
(syslog-ng-)?config\.h$

lib/cfg-lex\.[ch]$
tgz2build
autom4te\.cache
m4
Mk
.*\.(a|bin|class|css|dirstamp|html|idx|jar|js|o|la|lai|lo|MF|persist|Plo|Po|pc|pyc|so|so\.0\.0\.0|soT|spec|trs)$
(.*/)?Makefile$
doc/man
(_configs\.sed|\.project|\.cproject|config\.status)$
stamp-h1$
tests/functional/test\.conf$
scripts/update-patterndb$
(contrib|debian)
doc/ChangeLog\.[0-9]$
(\.gitmodules|AUTHORS|COPYING|INSTALL|VERSION|aclocal\.m4|compile|configure|depcomp|install-sh|libtool|ltmain\.sh|missing|test-driver|ylwrap)$
.*/[^/.]*$
GPATH|GTAGS|GRTAGS|GSYMS
dbld/build/.*$
dbld/release/.*$
dbld/install/.*$
dbld/images/.*$
LGPLv2.1+_SSL
autogen\.sh$
cmake
sub-configure\.sh$
configure\.ac$
Makefile\.am$
lib/(compat|str-repr|control|debugger|filter|logproto|parser|rewrite|stats|template|tests|transport|logmsg|value-pairs|[^/]*$)
lib/scanner/(csv-scanner|list-scanner|kv-scanner|[^/]*$)
libtest
syslog-ng(-ctl)?
modules/java-modules/common
modules/java/(native|proxies|src)
modules/native
GPLv2+_SSL
dev-utils/plugin_skeleton_creator/create_plugin.sh
tests
modules/java/(tools|[^/]*$)
modules/java-modules/(dummy|elastic|elastic-v2|hdfs|http|kafka|[^/]*$)
modules/(afamqp|affile|afmongodb|afprog|afsmtp|afsocket|afsql|afstomp|afstreams|afuser|basicfuncs|cef|confgen|cryptofuncs|csvparser|date|diskq|dbparser|geoip|geoip2|graphite|json|kvformat|linux-kmsg-format|pacctformat|pseudofile|python|redis|riemann|syslogformat|systemd-journal|getent|system-source|stardate|snmptrapd-parser|[^/]*$)
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them as well.

Q: Do I need to sign a Contributory License Agreement in order for my
contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to
have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the
syslog-ng core but not derived works of other plugins. Thus, non-free
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Q: Who is permitted to create non-free plugins for syslog-ng? Is it just
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1.194 pythonurllib 1.25.9

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
 * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>

 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.

 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>

 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
 * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
 * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
 * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
 * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
 * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
 * Test improvements

* Chris Olufson <tycarac@gmail.com>
 * Fix for connection not being released on HTTP redirect and response not preloaded

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]

1.195 ooid 0.999

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1.196 libconfig 1.7.2

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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
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linked with it, is called a "work that uses the Library". Such a
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However, linking a "work that uses the Library" with the Library
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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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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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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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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.

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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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@c
@c %**start of header

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37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
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46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino <jmmv@users.sourceforge.net>

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

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

<!-- $Id$ -->

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

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#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.text">
```

```
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
    <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
      <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
   </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

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

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1.200 util-linux 2.35.2

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1.201 pkix-ssh 12.1

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 *
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```

```
 *
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1.210 python-packaging 20.4

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1.211 cyrus-sasl 2.1.27

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* Tim Martin
* Rob Earhart
* Rob Siemborski
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1.213 libmnl 1.0.4

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1.214 netifaces 0.10.9

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1.215 xml-security-c 2.0.2

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1.216 python-characteristic 14.3.0

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1.217 python-setuptools 46.1.3

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1.218 python-enum 1.1.10

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1.219 python-six 1.15.0

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