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### **1.1.1 Available under license :**

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

# 1.2 lua 5.1.3

## 1.2.1 Available under license :

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# 1.3 csrp 1.0

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## 1.4 libtommath 0.42.0

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-- Tom St Denis

## 1.5 sed 4.2.2

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Version 3, 29 June 2007

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The author of the modifications will include his/her name by appending it along with the new version number to this file and will be responsible for any wrong behavior of the modified software.

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Modifications:

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## 1.7 unbound 1.4.22

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## 1.8 findutils 4.6.0

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Version 3, 29 June 2007

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@subheading END OF TERMS AND CONDITIONS

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```
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```

```
/* setjmp is implemented in setjmp.S */
```

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## 1.11 zlib 1.2.3

### 1.11.1 Available under license :

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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## 1.13 libxslt 1.1.33

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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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## 1.16 bzip2 1.0.8

## 1.17 iptables 1.8.3

## 1.18 gawk 5.0.1

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## 1.19 zlib 1.2.8

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```
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version 1.2.11, January 15th, 2017
```

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## 1.23 e2fsprogs 1.43

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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

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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\*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
- + Copyright (C) Andrew Tridgell            1999-2005
- + Copyright (C) Jeremy Allison            2000-2006
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Gadi Oxman, August 1995

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
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Theodore Ts'o  
23-June-2007

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

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```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision  
comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
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necessary. Here is a sample; alter the names:

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

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

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-----  
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the EXT2 file  
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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

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

<http://sourceforge.net/projects/e2fsprogs>

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

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#

# This is a Makefile stub which handles the creation of BSD shared # libraries.

#

# In order to use this stub, the following makefile variables must be defined.

```

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

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".



This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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```

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

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## 1.29 gmp 6.1.2

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```

```
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## 1.33 openssl 1.1.1c

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## 1.39 libxml 2.9.9

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# 1.40 bluez 5.50

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*  
* Optimised ANSI C code for the Rijndael cipher (now AES)  
*  
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
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The source code for a

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# 1.46 gdbm 1.18-1.el8

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```

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<signature of Ty Coon>, 1 April 1989
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## 1.48 libestr 0.1.10-1.el8

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

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## 1.62 erlang-otp 9.3

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

#### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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-----  
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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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```



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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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).  
\*/

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[dialyzer]

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[edoc, syntax\_tools]

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Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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## 1.66 elfutils 0.178

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Coon>, 1 April 1989  
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the

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@enumerate 0

@item

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``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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@item

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

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

@item

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

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



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

@item

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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:

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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  
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@item

Use a suitable shared library mechanism for linking with the Library. A  
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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  
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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@item

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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```
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@var{one line to give the library's name and an idea of what it does.}
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```

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```
@end
smallexample
```

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```
@smallexample
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`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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

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Julian Seward, Cambridge, UK.

[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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## 1.74 python 2.7.18

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

| Release        | Derived 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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.76 binutils 2.32.0

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include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd



man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
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man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
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man/fmtcheck.3bsd

man/humanize\_number.3bsd

man/stringlist.3bsd

man/timeval.3bsd

src/fmtcheck.c

src/humanize\_number.c

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man/strncpy.3bsd  
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src/arc4random\_linux.h  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
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src/getentropy\_aix.c  
src/getentropy\_bsd.c  
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src/getentropy\_hurd.c  
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src/getentropy\_osx.c  
src/getentropy\_solaris.c  
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```
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""

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## 1.83 gnutls 3.6.13

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gevent/libuv/\_coreffi\_source.c  
gevent/libuv/\_coreffi\_cdef.c

Originally based on code from <https://github.com/veege/guv>

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## 1.86 nghttp2 1.39.2

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## 1.87 python 3.7.8

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

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

In May 2000, Guido and the Python core development team moved to

BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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|----------------|--------------|-----------|------------|---------------------|
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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## 1.88 libvirt 5.5.0

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\*

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\*

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```

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<signature of Ty Coon>, 1 April 1989
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structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6,

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

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

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

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

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

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

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# 1.100 rsyslog 8.1911.0-6.el8

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```

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## 1.101 brotli 1.0.6-2.e18

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## 1.103 tftp-hpa 5.2

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\*/

Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c  
\*  
/opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c  
\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp\_wrappers-devel

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

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.



```

%prep
%setup -q -n tftp-hpa-%{ version }

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
  install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

```

- \* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>  
- rebuilt
- \* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>  
- rebuilt
- \* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>  
- 0.33  
- Add /tftpboot directory (#88204)
- \* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>  
- rebuilt
- \* Sun Feb 23 2003 Tim Powers <timp@redhat.com>  
- add BuildPreReq on tcp\_wrappers
- \* Wed Jan 22 2003 Tim Powers <timp@redhat.com>  
- rebuilt
- \* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1  
- Update to 0.32
- \* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1  
- Fix #55789  
- Update to 0.30
- \* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>  
- Try applying HJ's patch from #65476
- \* Fri Jun  
21 2002 Tim Powers <timp@redhat.com>  
- automated rebuild
- \* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>  
- Update to 0.29
- \* Thu May 23 2002 Tim Powers <timp@redhat.com>  
- automated rebuild
- \* Wed Jan 09 2002 Tim Powers <timp@redhat.com>  
- automated rebuild
- \* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15  
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562  
- Update to tftp-hpa-0.28 (bug #56131)  
- Remove include/arpa/tftp.h to fix #57259  
- Add resource limits in tftp-xinetd (#56722)

- \* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.
  
- \* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one
  
- \* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x
  
- \* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update
  - to tftp-hpa-0.16
  
- \* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),
  
- \* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).
  
- \* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %%postun for erasure as well.
  
- \* Wed Aug 23 2000
  - Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled
  
- \* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.
  
- \* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

- \* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server\_args (#14003).
  - remove -D\_BSD\_SOURCE (#14003).
  
- \* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd
  
- \* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild
  
- \* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.
  
- \* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use \_BSD\_SOURCE for hpa's tftpd so we get BSD signal semantics.
  
- \* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description
  
- \* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).
  
- \* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary
  
- \* Tue
  - Jan 4 2000 Bill Nottingham <notting@redhat.com>
    - split client and server
  
- \* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.
  
- \* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.
  
- \* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)
  
- \* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)
  
- \* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

- \* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root
  
- \* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr
  
- \* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure
  
- \* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec

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*
* ----- */
```

Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h

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

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.\"
.\"----- */

```

Found in path(s):

```

*/opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

```

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* ----- */

```

Found in path(s):

```

*/opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
*/opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
*/opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c
No license file was found, but licenses were detected in source scan.

```

```

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.\"
.\"----- */

```

Found in path(s):

```
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
```

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp\_wrappers-devel

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

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

```

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package
provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
  install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)

```



%config(noreplace) % {\_sysconfdir}/xinetd.d/tftp  
%dir /tftpboot  
% {\_sbindir}/in.tftpd  
% {\_mandir}/man8/\*

%changelog

- \* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.
- \* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt
- \* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt
- \* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)
- \* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt
- \* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp\_wrappers
- \* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt
- \* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32
- \* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30
- \* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476
- \*
- Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
- \* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29
- \* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

- \* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)
  
- \* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.
  
- \* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one
  
- \* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x
  
- \* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - 
  - update to tftp-hpa-0.16
  
- \* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up eggs
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),
  
- \* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).
  
- \* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %%postun for erasure as well.

- \* Wed Aug  
23 2000 Nalin Dahyabhai <nalin@redhat.com>  
- default to being disabled
- \* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>  
- correct group.
- \* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>  
- change user from root to nobody
- \* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>  
- update to tftp-hpa-0.14 (#14003).  
- add server\_args (#14003).  
- remove -D\_BSD\_SOURCE (#14003).
- \* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>  
- cook up an xinetd config file for tftpd
- \* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>  
- automatic rebuild
- \* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>  
- FHS packaging.  
- update to 0.17.
- \* Fri May 5 2000 Matt Wilson <maw@redhat.com>  
- use \_BSD\_SOURCE for hpa's tftpd so we get BSD signal semantics.
- \* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>  
- fix description
- \* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>  
- compress man pages (again).
- \* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>  
- man pages are compressed  
- fix description and summary
- \*
- Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>  
- split client and server
- \* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>  
- update to 0.16.
- \* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>  
- update to 0.15.

\* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>

- tftpd should truncate file when overwriting (#412)

\* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

\* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>

- compile for 6.0.

\* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>

- build root

\* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

\* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

\* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec.in

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Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in

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\*

\* ----- \*/

Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

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\*  
\* ----- \*/

Found in path(s):

\* /opt/cola/permits/1108298343\_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h

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Found in path(s):

```
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/extern.h
*
/opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h
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```

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```

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```

```
*/
```

```
Found
```

```
in path(s):
```

```
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c
```

# 1.104 zlib 1.2.7-18.el7

## 1.104.1 Available under license :

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# 1.105 bzip2 1.0.6-26.el8

## 1.105.1 Available under license :

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---

## 1.106 acl 2.2.53-1.el8

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## 1.108 idna 2.9

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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.*',
```

```
'test_suite': 'tests',
}

setup(**arguments)

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

Found in path(s):

\* /opt/cola/permits/1110783928\_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/setup.py

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## 1.109 iso8601 0.1.12

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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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```
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it
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```
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# 1.122 coreutils 8.30-8.el8

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work.

(Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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## 1.124 crypto-policies 20200713-

## 1.git51d1222.el8

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

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

c) You must cause the whole of the work to be licensed at no 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,



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

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

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

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

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

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

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6. As an exception to the Sections above, you may also 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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Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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Any executables

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# 1.129 pcre 10.32-2.el8

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Written by: Philip Hazel

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

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

^L

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^L

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```
# COPYING.other          *- org *-  
#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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the Free  
Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c'
for details.
```

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

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

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The End

## 1.148 python-setuptools 39.2.0-6.el8

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## 1.149 e2fsprogs 1.45.6-1.el8

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

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

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

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

```
image: $(BSD_LIB)
```

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

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

```
install-strip: install
```

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$BSDLIB_INSTALL_DIR/$BSD_LIB
```

clean::

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

-----  
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Version 2, June 1991

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```

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```
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```

```
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Theodore Ts'o  
23-June-2007

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```

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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.)

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That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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

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

<http://sourceforge.net/projects/e2fsprogs>

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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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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## Constant-time SSSE3 AES core implementation.

## version 0.1

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# 1.151 coreutils 8.31

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Version 3, 29 June 2007

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jloup@gzip.org      madler@alumni.caltech.edu

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Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
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Barron, Danny

Bates, Tom  
Behan, Zdenk  
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Cusack, Frank  
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Eckhardt, Drew  
Edgington, Ben  
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Gelman, Stephen  
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Jepeway, Chris  
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Jover, Guillem  
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Kienenberger, Mike  
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Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
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Kranenburg, Paul  
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Levin, Dmitry V.  
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Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
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Makey, Jeff  
Mallayya, Sangamesh  
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Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
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Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin

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Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
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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  
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Richards, Matt  
Rossum, Guido van  
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Rowe, William A., Jr.  
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Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
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Sobrado, Igor  
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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  
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The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez,  
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Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
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Hufthammer, Karl Ove

Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
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Krznar, Tomislav  
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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  
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Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

# 1.154 libpsl 0.20.2-6.el8

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psl-make-dafsa and lookup\_string\_in\_fixed\_set.c.

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# 1.155 iconv 2.28

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Ty Coon, President of Vice
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| 1  | 32    | 7679  | 7648    | 3.7M |      | 8f8378c0-01 |
| 2  | 7680  | 16383 | 8704    | 4.3M |      | 8f8378c0-02 |
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
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with this program; if not, write to the Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
```

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

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

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

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

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

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

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Version 3, 29 June 2007

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(1)

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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.

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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.

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- 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

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Interpretation of Sections 15 and 16.

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

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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# 1.160 libidn 2.2.0

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

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



software.

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

All

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

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

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WEV @@ WEV[B "1

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WEV[B "1

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```

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```
#
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#
# This file contains all needed files related to nfs server daemon.
#
infra/systemd/nfs-mountd.service      usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service      usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount      usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs  usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd  usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd  usr/sbin/rpc.nfsd

(include nfs-common)
# The following optional kernel modules are put here to allow forwarding
# compatible when NFSV4 support is configured in kernel.
# When nfsv4 is enabled in kernel, it brings in extra dependency for
# nfsd.ko, which is needed for nfsv3 server.
#
# so treat extra modules needed by nfsd.ko as optional since it depend on kernel
# configure.
#
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
```

-\${PLATFORM\_SYSROOT}/usr/lib/modules/\${KERNEL\_VER}/kernel/net/sunrpc/auth\_gss/auth\_rpcgss.ko  
usr/lib/modules/\${KERNEL\_VER}/kernel/net/sunrpc/auth\_gss/auth\_rpcgss.ko

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/nfsv3/nfs-utils

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ipcalc usr/bin/ipcalc

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.statd usr/sbin/rpc.statd  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sm-notify usr/sbin/sm-notify  
infra/systemd/nfs-statd.service usr/lib/systemd/system/nfs-statd.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/nfsstatd usr/sbin/nfsstatd

contrib/initscripts/binos/etc/\${NFS\_VER}/nfs-utils.conf etc/nfs-utils.conf

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/staprun usr/bin/staprun  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/libexec/systemtap/stapio usr/libexec/systemtap/stapio

Found in path(s):

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/journalctl usr/bin/journalctl  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemctl usr/bin/systemctl  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-inhibit usr/bin/systemd-inhibit  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-notify usr/bin/systemd-notify

|   |   |
|---|---|
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-tmpfiles                                  | usr/bin/systemd-tmpfiles                                  |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/udevadm   | usr/bin/udevadm   |
| contrib/yocto/CGE7/journald.conf  | etc/systemd/journald.conf                                 |
| infra/systemd/system.conf   | etc/systemd/system.conf                                   |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/systemd/user.conf                                     | etc/systemd/user.conf                                     |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/udev/udev.conf  | etc/udev/udev.conf  |
| /usr/lib/systemd/systemd  | init  |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator | usr/lib/systemd/system-generators/systemd-fstab-generator |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/basic.target                       | usr/lib/systemd/system/basic.target                       |
| /usr/lib/systemd/system/reboot.target   | usr/lib/systemd/system/ctrl-alt-del.target                |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/dev-hugepages.mount                | usr/lib/systemd/system/dev-hugepages.mount                |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/dev-mqueue.mount                   | usr/lib/systemd/system/dev-mqueue.mount                   |
| infra/systemd/emergency.service   | usr/lib/systemd/system/emergency.service                  |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/emergency.target                   | usr/lib/systemd/system/emergency.target                   |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/final.target                       | usr/lib/systemd/system/final.target                       |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/halt.target                        | usr/lib/systemd/system/halt.target                        |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/kexec.target                       | usr/lib/systemd/system/kexec.target                       |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/local-fs-pre.target                | usr/lib/systemd/system/local-fs-pre.target                |
| infra/systemd/local-fs.target   | usr/lib/systemd/system/local-fs.target                    |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/network-online.target              | usr/lib/systemd/system/network-online.target              |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/network.target                     | usr/lib/systemd/system/network.target                     |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/paths.target                       | usr/lib/systemd/system/paths.target                       |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/poweroff.target                    | usr/lib/systemd/system/poweroff.target                    |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/reboot.target                      | usr/lib/systemd/system/reboot.target                      |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/remote-fs.target                   | usr/lib/systemd/system/remote-fs.target                   |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/rescue.service                     | usr/lib/systemd/system/rescue.service                     |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/rescue.target                      | usr/lib/systemd/system/rescue.target                      |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/shutdown.target                    | usr/lib/systemd/system/shutdown.target                    |



```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/slices.target
    usr/lib/systemd/system/slices.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
/usr/lib/systemd/system/systemd-udev-control.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-control.socket
/usr/lib/systemd/system/systemd-udev-kernel.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-kernel.socket
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sys-kernel-config.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sys-kernel-debug.mount
/usr/lib/systemd/system/dev-hugepages.mount
    usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount
/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/sysinit.target.wants/dev-mqueue.mount
/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-config.mount
/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-debug.mount
/usr/lib/systemd/system/systemd-journal-flush.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service
/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service
/usr/lib/systemd/system/systemd-modules-load.service
    usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service
/usr/lib/systemd/system/systemd-sysctl.service
usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service
/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service
/usr/lib/systemd/system/systemd-tmpfiles-setup.service
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup.service
/usr/lib/systemd/system/systemd-udev-trigger.service
usr/lib/systemd/system/sysinit.target.wants/systemd-udev-trigger.service
/usr/lib/systemd/system/systemd-udev.service
usr/lib/systemd/system/sysinit.target.wants/systemd-udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-halt.service
    usr/lib/systemd/system/systemd-halt.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journal-flush.service
usr/lib/systemd/system/systemd-journal-flush.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-dev-log.socket
usr/lib/systemd/system/systemd-journald-dev-log.socket
infra/systemd/systemd-journald.service.d/visible.conf                usr/lib/systemd/system/systemd-
journald.service.d/visible.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-fsck@.service
usr/lib/systemd/system/systemd-fsck@.service

```

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald.socket  
usr/lib/systemd/system/systemd-journald.socket

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-kexec.service  
usr/lib/systemd/system/systemd-kexec.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-modules-load.service  
usr/lib/systemd/system/systemd-modules-load.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-poweroff.service  
usr/lib/systemd/system/systemd-poweroff.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-reboot.service  
usr/lib/systemd/system/systemd-reboot.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-sysctl.service  
usr/lib/systemd/system/systemd-sysctl.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service  
usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup.service  
usr/lib/systemd/system/systemd-tmpfiles-setup.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-settle.service  
usr/lib/systemd/system/systemd-udev-settle.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-trigger.service  
usr/lib/systemd/system/systemd-udev-trigger.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-control.socket  
usr/lib/systemd/system/systemd-udev-control.socket

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-kernel.socket  
usr/lib/systemd/system/systemd-udev-kernel.socket

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/timers.target  
usr/lib/systemd/system/timers.target

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/time-sync.target  
usr/lib/systemd/system/time-sync.target

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/umount.target  
usr/lib/systemd/system/umount.target

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/systemd  
usr/lib/systemd/systemd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-socket-activate  
usr/bin/systemd-socket-activate

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/systemd-bootchart  
usr/lib/systemd/systemd-bootchart

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/systemd-fsck  
usr/lib/systemd/systemd-fsck

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/systemd-journald  
usr/lib/systemd/systemd-journald

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/systemd-modules-load  
usr/lib/systemd/systemd-modules-load

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/systemd-shutdown  
usr/lib/systemd/systemd-shutdown

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/systemd-sysctl  
usr/lib/systemd/systemd-sysctl

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/systemd-timedated  
usr/lib/systemd/systemd-timedated

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/systemd-udev  
usr/lib/systemd/systemd-udev

```

udev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/50-udev-default.rules
usr/lib/udev/rules.d/50-udev-default.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/99-systemd.rules
    usr/lib/udev/rules.d/99-systemd.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-analyze                usr/bin/systemd-analyze
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/machine.slice
usr/lib/systemd/system/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf                usr/lib/systemd/system/systemd-
journald.service.d/visible.conf

infra/systemd/sysctl/inotify-user-instances.conf                    etc/sysctl.d/inotify-user-instances.conf

```

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/systemd-common

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

```

#
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```

```

(include audit)
(include bash)
(include binutils)
(include bridge-utils)
(include busybox)
(include bzip2)
(include coreutils)
(include cpio)
(include dbus)
(include diffutils)
(include dosfstools)
(include e2fsprogs)
(include ethtool)
(include file)
(include filesystem)
(include findutils)
(include gawk)
(include glibc)
(include grep)
(include gzip)
(include initscripts)
(include ipcalc)
(include iproute2)
(include iptables)
(include iputils)
(include kexec-tools)
(include kmod)

```

(include less)  
(include libcap)  
(include lsof)  
(include modules)  
(include ncurses)  
(include netbase)  
(include netcat)  
(include netkit-telnet)  
(include net-tools)  
(include \${NFS\_VER}/nfs-utils-client)  
(include pciutils)  
(include procps)  
(include psmisc)  
(include rpcbind)  
(include sed)  
(include shadow)  
(include strace)  
(include sysklogd)  
(include systemtap)  
(include sysvinit)  
(include  
tar)  
(include tcpdump)  
(include tftp-hpa)  
(include traceroute)  
(include util-linux)

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/all-common

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#

# November 2018, Cisco Systems, Inc.

#

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#

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ping      usr/bin/ping

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/tracpath      usr/bin/tracpath

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/in.tftpd-hpa      usr/bin/tftpd

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/iputils

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#

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(include all-common)

(include systemd)

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/all

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#

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#files related to nfs-statd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.statd           usr/sbin/rpc.statd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sm-notify       usr/sbin/sm-notify

infra/systemd/nfs-statd.service                   usr/lib/systemd/system/nfs-statd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/nfsstat       usr/sbin/nfsstat

#files related to nfs-idmapd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.idmapd       usr/sbin/rpc.idmapd

infra/systemd/var-lib-nfs-rpc\_pipefs.mount       usr/lib/systemd/system/var-lib-nfs-rpc\_pipefs.mount

# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.

# The directory for plugin is fix to usr/lib/libnfsidmap

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/\${LIB}/libnfsidmap/nsswitch.so   usr/lib/libnfsidmap/nsswitch.so

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/idmapd.conf

    etc/idmapd.conf

infra/systemd/nfs-idmapd.service               usr/lib/systemd/system/nfs-idmapd.service

contrib/initscripts/binos/etc/\${NFS\_VER}/nfs-utils.conf   etc/nfs-utils.conf

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/nfsv4/nfs-common

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#

# May 2018, Victor Kamensky

#

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#

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auditd       usr/sbin/auditd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auditpd       usr/sbin/auditpd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/autrace       usr/sbin/autrace

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/aureport       usr/sbin/aureport

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auditctl       usr/sbin/auditctl

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auresearch     usr/sbin/auresearch

```

contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/audisp/audispd.conf  etc/audit/audisp/audispd.conf
contrib/initscripts/binos/etc/audit/audit.rules      etc/audit/audit.rules
contrib/initscripts/binos/etc/audit/audisp/plugins.d/syslog.conf  etc/audit/audisp/plugins.d/syslog.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/default/auditd
    etc/default/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/libaudit.conf    etc/libaudit.conf

```

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/audit

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(include systemd-common)

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-preset/90-systemd.preset
usr/lib/systemd/system-preset/90-systemd.preset
/usr/lib/systemd/system/tmp.mount                usr/lib/systemd/system/local-
fs.target.requires/tmp.mount
infra/systemd/sysinit.target                    usr/lib/systemd/system/sysinit.target
infra/systemd/cpld-symlink.service              usr/lib/systemd/system/cpld-symlink.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/systemd-journald.service
infra/systemd/systemd-journald.service.d/visible.conf  usr/lib/systemd/system/systemd-
journald.service.d/visible.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-timedated.service
    usr/lib/systemd/system/systemd-timedated.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev.service
usr/lib/systemd/system/systemd-udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/tmp.mount
usr/lib/systemd/system/tmp.mount

```

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/systemd

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#

# This file contains all needed files related to nfs server daemon.

#

```

infra/systemd/nfs-mountd.service                usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service                usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount                usr/lib/systemd/system/proc-fs-nfsd.mount

```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs  usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd  usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd  usr/sbin/rpc.nfsd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rpcinfo  usr/bin/rpcinfo
```

```
(include nfs-common)
```

```
# The following kernel modules are needed when NFSV4 support is configured
# in kernel.
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko
```

```
-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
```

```
Found in path(s):
```

```
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv4/nfs-utils
```

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

```
#
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```

```
# This file is to store extra files needed to support NFSV4 client.
```

```
#
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs  usr/sbin/mount.nfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs  usr/sbin/umount.nfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs4  usr/sbin/mount.nfs4
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs4  usr/sbin/umount.nfs4
```

```
contrib/initscripts/binos/etc/${NFS_VER}/nfsmount.conf  etc/nfsmount.conf
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
```

```
(include nfs-common)
```

```
Found in path(s):
```

```
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv4/nfs-utils-client
```

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

```
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```

```
(include systemd-common)
```

```
infra/systemd/switchroot/sysinit.target
```

```
usr/lib/systemd/system/sysinit.target
```

```

infra/systemd/switchroot/systemd-journald.service      usr/lib/systemd/system/systemd-
journald.service
infra/systemd/switchroot/systemd-timedated.service     usr/lib/systemd/system/systemd-
timedated.service
infra/systemd/switchroot/systemd-udev.service          usr/lib/systemd/system/systemd-
udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket
usr/lib/systemd/system/systemd-journald-audit.socket

```

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/systemd-swrt

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```

#
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```

(include all-common)

(include systemd-swrt)

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/all-swrt

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

```

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```

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/dmesg      usr/bin/dmesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/kill       usr/bin/kill
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mount      usr/bin/mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/umount     usr/bin/umount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/agetty    usr/sbin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev  usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk    usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel  usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdisk     usr/sbin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fsck      usr/sbin/fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/hwclock   usr/sbin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkswap    usr/sbin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/pivot_root
usr/sbin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sfdisk    usr/sbin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapoff   usr/sbin/swapoff
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapon    usr/sbin/swapon
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/arch       usr/bin/arch
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/cal        usr/bin/cal
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/chrt       usr/bin/chrt

```



```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/col      usr/bin/col
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colcrt   usr/bin/colcrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colrm    usr/bin/colrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/column   usr/bin/column
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/flock    usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/getopt   usr/bin/getopt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hexdump  usr/bin/hexdump
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ionice   usr/bin/ionice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm
  usr/bin/ipcrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcs     usr/bin/ipcs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/isosize  usr/bin/isosize
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/last     usr/bin/last
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/logger   usr/bin/logger
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/look     usr/bin/look
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/lshblk   usr/bin/lshblk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mesg     usr/bin/mesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/namei    usr/bin/namei
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/newgrp   usr/bin/newgrp
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/nsenter  usr/bin/nsenter
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rename   usr/bin/rename
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/renice   usr/bin/renice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rev      usr/bin/rev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/script  usr/bin/script
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setsid
  usr/bin/setsid
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setterm  usr/bin/setterm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/taskset  usr/bin/taskset
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ul       usr/bin/ul
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/wall     usr/bin/wall
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/whereis  usr/bin/whereis
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/write   usr/bin/write
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdformat usr/sbin/fdformat
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkfs    usr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/raw     usr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctl  usr/sbin/zramctl

```

Found in path(s):

\* /opt/cola/permits/1130449848\_1615191957.87/0/iptables-tar/linux-system/util-linux

## 1.171 libdnf 0.55.0-1.el8

### 1.171.1 Available under license :

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*/

```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/getaddrinfo.c
```

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```

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<!--
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-->

<!-- $Id: lwres_getaddrinfo.docbook,v
1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>

<refentryinfo>
<date>Jun 30, 2000</date>

```

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getaddrinfo</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getaddrinfo</refname>

<refname>lwres\_freeaddrinfo</refname>

<refpurpose>socket address structure to host and service name</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

int

<function>lwres\_getaddrinfo</function></funcdef>

<paramdef>const char \*hostname</paramdef>

<paramdef>const char \*servname</paramdef>

<paramdef>const struct addrinfo \*hints</paramdef>

<paramdef>struct addrinfo \*\*res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freeaddrinfo</function></funcdef>

<paramdef>struct addrinfo \*ai</paramdef>

</funcprototype>

</funcsynopsis>

<para>

If the operating system does

not provide a

<type>struct addrinfo</type>,&br/>the following structure is used:

<programlisting>

```
struct addrinfo {
```

```
    int     ai_flags;    /* AI_PASSIVE, AI_CANONNAME */
```

```
    int     ai_family;  /* PF_xxx */
```

```
    int     ai_socktype; /* SOCK_xxx */
```

```
    int     ai_protocol; /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
```

```
    size_t  ai_addrlen; /* length of ai_addr */
```

```
    char    *ai_canonname; /* canonical name for hostname */
```

```
    struct sockaddr *ai_addr; /* binary address */
```

```
    struct addrinfo *ai_next;    /* next structure in linked list */
};
</programlisting>
</para>
```

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getaddrinfo(</function>

is used to get a list of IP addresses and port numbers for host

<parameter>hostname</parameter>

and service

<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of

<function>getaddrinfo(</function>

as

defined in RFC2133.

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are pointers to null-terminated

strings or

<type>NULL</type>.

<parameter>hostname</parameter>

is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address.

<parameter>servname</parameter>

is either a decimal port number or a service name as listed in

<filename>/etc/services</filename>.

</para>

<para>

<parameter>hints</parameter>

is an optional pointer to a

<type>struct addrinfo</type>.

This structure can be used to provide hints concerning the type of socket that the caller supports or wishes to use.

The caller can supply the following structure elements in

<parameter>\*hints</parameter>:

<variablelist>

<varlistentry><term><constant>ai\_family</constant></term>

<listitem>

<para>The protocol family that should be used.

When

`<constant>ai_family</constant>`

is set to

`<type>PF_UNSPEC</type>`,

it means the caller will accept any protocol

family supported by the

operating system.

`</para></listitem></varlistentry>`

`<varlistentry><term><constant>ai_socktype</constant></term>`

`<listitem>`

`<para>`

denotes the type of socket &mdash;

`<type>SOCK_STREAM</type>`,

`<type>SOCK_DGRAM</type>`

or

`<type>SOCK_RAW</type>`

&mdash; that is wanted.

When

`<constant>ai_socktype</constant>`

is zero the caller will accept any socket type.

`</para>`

`</listitem>`

`</varlistentry>`

`<varlistentry><term><constant>ai_protocol</constant></term>`

`<listitem>`

`<para>`

indicates which transport protocol is wanted: IPPROTO\_UDP or

IPPROTO\_TCP.

If

`<constant>ai_protocol</constant>`

is zero the caller will accept any protocol.

`</para>`

`</listitem>`

`</varlistentry>`

`<varlistentry><term><constant>ai_flags</constant></term>`

`<listitem>`

`<para>`

Flag bits.

If the

`<type>AI_CANONNAME</type>`

bit is set, a successful call to

`<function>lwres_getaddrinfo()</function>`

will return a null-terminated string containing the canonical name

of the specified hostname in

`<constant>ai_canonname</constant>`

of

the first

`<type>addrinfo</type>`

structure returned.

Setting the

<type>AI\_PASSIVE</type>

bit indicates that the returned socket address structure is intended for use in a call to

<citrefentry>

<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>

</citrefentry>.

In this case, if the hostname argument is a

<type>NULL</type>

pointer, then the IP address portion of the socket address structure will be set to

<type>INADDR\_ANY</type>

for an IPv4 address or

<type>IN6ADDR\_ANY\_INIT</type>

for an IPv6 address.

</para>

<para>

When

<constant>ai\_flags</constant>

does not set the

<type>AI\_PASSIVE</type>

bit, the returned socket address structure will be ready

for use in a call to

<citrefentry>

<refentrytitle>connect</refentrytitle><manvolnum>2

</manvolnum>

</citrefentry>

for a connection-oriented protocol or

<citrefentry>

<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>

</citrefentry>,

<citrefentry>

<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>

</citrefentry>,

or

<citrefentry>

<refentrytitle>sendmsg</refentrytitle><manvolnum>2

</manvolnum>

</citrefentry>

if

a connectionless protocol was chosen.

The IP address portion of the socket address structure will be

set to the loopback address if

<parameter>hostname</parameter>

is a  
<type>NULL</type>  
pointer and  
<type>AI\_PASSIVE</type>  
is not set in  
<constant>ai\_flags</constant>.

</para>

<para>

If

<constant>ai\_flags</constant>

is set to

<type>AI\_NUMERICHOST</type>

it indicates that

<parameter>hostname</parameter>

should be treated as a numeric string defining an IPv4 or IPv6 address  
and no name resolution should be attempted.

</para>

</listitem>

</varlistentry>

</variablelist>

</para>

<para>

All other elements of the <type>struct addrinfo</type> passed  
via <parameter>hints</parameter> must be zero.

</para>

<para>

A <parameter>hints</parameter> of <type>NULL</type> is treated as if  
the caller provided a <type>struct addrinfo</type> initialized to zero  
with <constant>ai\_family</constant>set  
to

<constant>PF\_UNSPEC</constant>.

</para>

<para>

After a successful call to

<function>lwres\_getaddrinfo()</function>,&br/><parameter>\*res</parameter>

is a pointer to a linked list of one or more

<type>addrinfo</type>

structures.

Each

Each

<type>struct addrinfo</type>

in this list can be processed by following

the

<constant>ai\_next</constant>

pointer, until a

<type>NULL</type>  
pointer is encountered.  
The three members  
<constant>ai\_family</constant>,  
<constant>ai\_socktype</constant>,  
and  
<constant>ai\_protocol</constant>  
in each  
returned  
<type>addrinfo</type>  
structure contain the corresponding arguments for a call to  
<citerefentry>  
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>  
</citerefentry>.  
For each  
<type>addrinfo</type>  
structure in the list, the  
<constant>ai\_addr</constant>  
member points to a filled-in socket address structure of length  
<constant>ai\_addrlen</constant>.  
</para>

<para>  
All of the information returned by  
<function>lwres\_getaddrinfo()</function>  
is dynamically  
allocated: the addrinfo structures, and the socket  
address structures and canonical host name strings pointed to by the  
<constant>addrinfo</constant>structures.  
Memory allocated for the dynamically allocated structures created by  
a successful call to  
<function>lwres\_getaddrinfo()</function>  
is released by  
<function>lwres\_freeaddrinfo()</function>.  
<parameter>ai</parameter>  
is a pointer to a  
<type>struct addrinfo</type>  
created by a call to  
<function>lwres\_getaddrinfo()</function>.  
</para>

</refsect1>

<refsect1>  
<title>RETURN VALUES</title>  
<para>  
<function>lwres\_getaddrinfo()</function>  
returns zero on success or one of the error codes listed in



<citerefentry>  
<refentrytitle>gai\_strerror</refentrytitle><manvolnum>3  
</manvolnum>  
</citerefentry>

if an error occurs.

If both

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are

<type>NULL</type>

<function>lwres\_getaddrinfo</function>

returns

<errorcode>EAI\_NONAME</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE

ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/></para>

<citerefentry>

<refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/></para>

<citerefentry>

<refentrytitle>lwres\_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/></para>

<citerefentry>

<refentrytitle>lwres\_gai\_strerror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/></para>

<citerefentry>

<refentrytitle>RFC2133</refentrytitle>

</citerefentry>,&br/></para>

<citerefentry>

<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/></para>

<citerefentry>

<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>

</citerefentry>,&br/></para>

<citrefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,</p></div>

<citrefentry>  
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,</p></div>

<citrefentry>  
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,</p></div>

<citrefentry>  
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>.</p></div>

</refsect1>  
</refentry></p></div>

Found</p></div>

in path(s):</p></div>

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.docbook</p></div>

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; \$Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp \$</p></div>

MessageIdTypedef=DWORD</p></div>

LanguageNames = (English=0x409:MSG00409)</p></div>

OutputBase</p></div>

---

Open Source Used In Condor IOSXE Releases 17.6.3-images 1858

= 16

MessageId=0x1  
Severity=Error  
Facility=Application  
SymbolicName=BIND\_ERR\_MSG  
Language=English  
% 1  
.

MessageId=0x2  
Severity=Warning  
Facility=Application  
SymbolicName=BIND\_WARN\_MSG  
Language=English  
% 1  
.

MessageId=0x3  
Severity=Informational  
Facility=Application  
SymbolicName=BIND\_INFO\_MSG  
Language=English  
% 1  
.

Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/win32/bindevt/bindevt.mc

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Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_neta.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_net_pton.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_pton.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_net_ntop.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_pw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getservernt.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/decunix/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_nw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_p.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_pr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_pw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/util.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/irs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux10/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/cygwin/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_ng.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_pr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/hesiod_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/hesiod.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_sv.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_ho.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_sv.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_sv.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_nw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getprotoent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetgrent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nul_ng.c
```

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/next/include/sys/bitypes.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/bitncmp.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/nameser/ns\_name.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/getpwent.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/irs\_data.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/gen\_pr.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/gen\_ng.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/irs\_p.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/nis\_ho.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/nameser/ns\_ttl.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/nameser/ns\_parse.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/hesiod.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/pathnames.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/irs\_data.h  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/nis\_pw.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/nameser/ns\_netint.c  
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/\* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp \$ \*/

#ifndef ISC\_PLATFORM\_H

#define

ISC\_PLATFORM\_H 1

/\*\*\*\*\*

\*\*\*\* Platform-dependent defines.

\*\*\*\*/

/\*\*\*

\*\* Network.

\*\*/

/\*

\* Define if this system needs the <netinet/in6.h> header file included

\* for full IPv6 support (pretty much only UnixWare).

\*/

@ISC\_PLATFORM\_NEEDNETINETIN6H@

/\*

\* Define if this system needs the <netinet6/in6.h> header file included

\* to support in6\_pkinfo (pretty much only BSD/OS).

\*/

@ISC\_PLATFORM\_NEEDNETINET6IN6H@

/\*

\* If sockaddrs on this system have an sa\_len field, ISC\_PLATFORM\_HAVESALEN

```

* will be defined.
*/
@ISC_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
* will be defined.
*/
@ISC_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
* will be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in6_pktinfo,
ISC_PLATFORM_HAVEIN6PKTINFO will be
* defined.
*/
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
* If this system has in_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
* will be defined.
*/
@ISC_PLATFORM_HAVEINADDR6@

/*
* If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
*/
@ISC_PLATFORM_HAVESCOPEID@

/*
* If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
*/
@ISC_PLATFORM_NEEDNTOP@

/*
* If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
*/

```



@ISC\_PLATFORM\_NEEDPTON@

/\*

\* If this system needs inet\_aton(), ISC\_PLATFORM\_NEEDATON will be defined.

\*/

@ISC\_PLATFORM\_NEEDATON@

/\*

\* If this system needs in\_port\_t, ISC\_PLATFORM\_NEEDPORTT will be defined.

\*/

@ISC\_PLATFORM\_NEEDPORTT@

/\*

\* If the system needs strsep(), ISC\_PLATFORM\_NEEDSTRSEP will be defined.

\*/

@ISC\_PLATFORM\_NEEDSTRSEP@

/\*

\* If the system needs strlcpy(), ISC\_PLATFORM\_NEEDSTRLCOPY will be defined.

\*/

@ISC\_PLATFORM\_NEEDSTRLCOPY@

/\*

\* If the system needs strlcat(), ISC\_PLATFORM\_NEEDSTRLCAT will be defined.

\*/

@ISC\_PLATFORM\_NEEDSTRLCAT@

/\*

\* Define either ISC\_PLATFORM\_BSD44MSGHDR or ISC\_PLATFORM\_BSD43MSGHDR.

\*/

@ISC\_PLATFORM\_MSGHDRFLAVOR@

/\*

\* Define if PTHREAD\_ONCE\_INIT should be surrounded by braces to prevent compiler warnings (such as with gcc on Solaris 2.8).

\*/

@ISC\_PLATFORM\_BRACEPTHREADONCEINIT@

/\*

\* Define on some UnixWare systems to fix erroneous definitions of various IN6\_IS\_ADDR\_\* macros.

\*/

@ISC\_PLATFORM\_FIXIN6ISADDR@

/\*\*

\*\*\* Printing.

\*\*\*

```
/*
 * If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
 * will be defined.
 */
```

```
@ISC_PLATFORM_NEEDVSNPRINTF@
```

```
/*
 * If this system need a modern printf() that returns (int) not (char*).
 */
```

```
@ISC_PLATFORM_NEEDSPRINTF@
```

```
/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
```

```
@ISC_PLATFORM_QUADFORMAT@
```

```
/*
 * Defined if we are using threads.
 */
```

```
@ISC_PLATFORM_USETHREADS@
```

```
/*
 * Defined if unistd.h does not cause
 * fd_set to be delared.
 */
```

```
@ISC_PLATFORM_NEEDSYSSELECTH@
```

```
/*
 * Type used for resource limits.
 */
```

```
@ISC_PLATFORM_RLIMITTYPE@
```

```
/*
 * Define if your compiler supports "long long int".
 */
```

```
@ISC_PLATFORM_HAVELONGLONG@
```

```
/*
 * Define if the system has struct lifconf which is a extended struct ifconf
 * for IPv6.
 */
```

```
@ISC_PLATFORM_HAVELIFCONF@
```

```
/*
 * Define if the system has struct if_laddrconf which is a extended struct
 * ifconf for IPv6.
 */
```

```

@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
* Define if the system has struct if_laddrreq.
*/
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@ISC_PLATFORM_USEDECLSPEC@

/*
* Define if the system supports if_nametoindex.
*/
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
* Define if this system needs strtoul.
*/
@ISC_PLATFORM_NEEDSTRTOUL@

/*
* Define if this system needs memmove.
*/
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define
LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else

```

```

#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */

/*
 * Tell emacs to use C mode for this file.
 *
 * Local Variables:
 * mode: c
 * End:
 */

#endif /* ISC_PLATFORM_H */

Found
in path(s):
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-->

<!-- \$Id: lwres\_getrrsetbyname.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>  
<refentryinfo>

<date>Oct 18, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getrrsetbyname</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getrrsetbyname</refname>

<refname>lwres\_freerrset</refname>

<refpurpose>retrieve DNS records</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

int

<function>lwres\_getrrsetbyname</function></funcdef>

<paramdef>const char \*hostname</paramdef>

<paramdef>unsigned int rdclass</paramdef>

<paramdef>unsigned int rdtype</paramdef>

<paramdef>unsigned int flags</paramdef>

<paramdef>struct rrsetinfo \*\*res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freerrset</function></funcdef>

<paramdef>struct rrsetinfo \*rrset</paramdef>

</funcprototype>

</funcsynopsis>

<para>

The following structures

are used:

```
<programlisting>
struct rdatainfo {
    unsigned int    rdi_length; /* length of data */
    unsigned char   *rdi_data; /* record data */
};

struct rrsetinfo {
    unsigned int    rri_flags; /* RRSET_VALIDATED... */
    unsigned int    rri_rclass; /* class number */
    unsigned int    rri_rdtype; /* RR type number */
    unsigned int    rri_ttl; /* time to live */
    unsigned int    rri_nrdatas; /* size of rdatas array */
    unsigned int    rri_nsigs; /* size of sigs array */
    char            *rri_name; /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs; /* individual signatures */
};
</programlisting>
```

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getrrsetbyname()</function>

gets a set

of resource records associated with a

<parameter>hostname</parameter>,

<parameter>class</parameter>,

and

<parameter>type</parameter>.

<parameter>hostname</parameter>

is

a pointer to a null-terminated string. The

<parameter>flags</parameter>

field is currently unused and must be zero.

</para>

<para>

After a successful call to

<function>lwres\_getrrsetbyname()</function>,

<parameter>\*res</parameter>

is a pointer to an

<type>rrsetinfo</type>

structure, containing a list of one or more  
<type>rdatainfo</type>  
structures containing resource records and potentially another list of  
<type>rdatainfo</type>  
structures containing SIG resource records  
associated with those records.

The members

<constant>rri\_rdclass</constant>

and

<constant>rri\_rdtype</constant>

are copied from the parameters.

<constant>rri\_ttl</constant>

and

<constant>rri\_name</constant>

are properties of the obtained rrset.

The resource records contained in

<constant>rri\_rdatas</constant>

and

<constant>rri\_sigs</constant>

are

in uncompressed DNS wire format.

Properties of the rdataset are represented in the

<constant>rri\_flags</constant>

bitfield. If the RRSET\_VALIDATED bit is set, the data has been DNSSEC  
validated and the signatures verified.

</para>

<para>

All of the information returned by

<function>lwres\_getrrsetbyname()</function>

is dynamically allocated: the

<constant>rrsetinfo</constant>

and

<constant>rdatainfo</constant>

structures,

and the canonical host name strings pointed to by the

<constant>rrsetinfo</constant>structure.

Memory allocated for the dynamically allocated structures created by  
a successful call to

<function>lwres\_getrrsetbyname()</function>

is released by

<function>lwres\_freerrset()</function>.

<parameter>rrset</parameter>

is a pointer to a

<type>struct rrset</type>

created by a call to

<function>lwres\_getrrsetbyname()</function>.



</para>

<para>

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getrrsetbyname()</function>

returns zero on success,

and one of the following error

codes if an error occurred:

<variablelist>

<varlistentry><term><constant>ERRSET\_NONAME</constant></term>

<listitem><para>

the name does not exist

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NODATA</constant></term>

<listitem><para>

the name exists, but does not have data of the desired type

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NOMEMORY</constant></term>

<listitem><para>

memory could not be allocated

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_INVALID</constant></term>

<listitem><para>

a parameter is invalid

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_FAIL</constant></term>

<listitem><para>

other failure

</para></listitem></varlistentry>

<varlistentry><term><constant></constant></term>

<listitem><para>

</para></listitem></varlistentry>

</variablelist>

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isccc/include/isccc/result.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isccc/result.c

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<!-- \$Id: lwres\_gabn.docbook,v  
 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

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<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_gabn</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_gabnrequest\_render</refname>

<refname>lwres\_gabnresponse\_render</refname>

<refname>lwres\_gabnrequest\_parse</refname>

<refname>lwres\_gabnresponse\_parse</refname>

<refname>lwres\_gabnresponse\_free</refname>

<refname>lwres\_gabnrequest\_free</refname>

<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_gabnrequest\_render</function></funcdef>

<paramdef>lwres\_context\_t \*ctx</paramdef>

<paramdef>lwres\_gabnrequest\_t \*req</paramdef>

<paramdef>lwres\_lwpacket\_t \*pkt</paramdef>

```

<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
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<function>lwres_gabnresponse_render</function></funcdef>
<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
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<paramdef>lwres_buffer_t *b</paramdef>
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<paramdef>lwres_gabnrequest_t **structp</paramdef>
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<paramdef>lwres_gabnrequest_t **structp</paramdef>
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</funcsynopsis>
</refsynopsisdiv>
<refsect1>

```

<title>DESCRIPTION</title>

<para>

These are low-level routines for creating and parsing lightweight resolver name-to-address lookup request and response messages.

</para><para>

There are four main functions for the getaddrbyname opcode.

One render function converts a getaddrbyname request structure &mdash;

<type>lwres\_gabnrequest\_t</type> &mdash;

to the lightweight resolver's canonical format.

It is complemented by a parse function that converts a packet in this

canonical format to a getaddrbyname request structure.

Another render function converts the getaddrbyname response structure &mdash;

<type>lwres\_gabnresponse\_t</type> &mdash;

to the canonical format.

This is complemented by a parse function which

converts a packet in

canonical format to a getaddrbyname response structure.

</para>

<para>

These structures are defined in

<filename>&lt;lwres/lwres.h&gt;</filename>.

They are shown below.

<programlisting>

```
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U
```

```
typedef struct lwres_addr lwres_addr_t;
```

```
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;
```

```
typedef struct {
```

```
    lwres_uint32_t flags;
```

```
    lwres_uint32_t addrtypes;
```

```
    lwres_uint16_t namelen;
```

```
    char          *name;
```

```
} lwres_gabnrequest_t;
```

```
typedef struct {
```

```
    lwres_uint32_t flags;
```

```
    lwres_uint16_t naliases;
```

```
    lwres_uint16_t naddrs;
```

```
    char          *realname;
```

```
    char          **aliases;
```

```
    lwres_uint16_t realnamelen;
```

```
    lwres_uint16_t *aliaslen;
```

```
    lwres_addrlist_t addrs;
```

```
    void          *base;
```

```
    size_t        baselen;
```

```
} lwres_gabnresponse_t;
```



</programlisting>  
</para>  
<para>  
<function>lwres\_gabnrequest\_render()</function>  
uses  
resolver context  
<parameter>ctx</parameter>  
to convert getaddrbyname request structure  
<parameter>req</parameter>  
to canonical format.  
The packet header structure  
<parameter>pkt</parameter>  
is initialised and transferred to  
buffer  
<parameter>b</parameter>.

The contents of  
<parameter>\*req</parameter>  
are then appended to the buffer in canonical format.  
<function>lwres\_gabnresponse\_render()</function>  
performs the same task, except it converts a getaddrbyname response structure  
<type>lwres\_gabnresponse\_t</type>  
to the lightweight resolver's canonical format.

</para>  
<para>  
<function>lwres\_gabnrequest\_parse()</function>  
uses context  
<parameter>ctx</parameter>  
to convert the contents of packet  
<parameter>pkt</parameter>  
to a  
<type>lwres\_gabnrequest\_t</type>  
structure.  
Buffer  
<parameter>b</parameter>  
provides space to be used for storing this structure.  
When the function succeeds, the resulting  
<type>lwres\_gabnrequest\_t</type>  
is  
made available through  
<parameter>\*structp</parameter>.

<function>lwres\_gabnresponse\_parse()</function>  
offers the same semantics as  
<function>lwres\_gabnrequest\_parse()</function>  
except it yields a  
<type>lwres\_gabnresponse\_t</type>  
structure.

</para>  
<para>  
<function>lwres\_gabnresponse\_free()</function>  
and  
<function>lwres\_gabnrequest\_free()</function>  
release the memory in resolver context  
<parameter>ctx</parameter>  
that was allocated to the  
<type>lwres\_gabnresponse\_t</type>  
or  
<type>lwres\_gabnrequest\_t</type>  
structures referenced via  
<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those structures is also discarded.

</para>  
</refsect1>  
<refsect1>  
<title>RETURN VALUES</title>

<para>  
The getaddrbyname opcode functions  
<function>lwres\_gabnrequest\_render()</function>,  
<function>lwres\_gabnresponse\_render()</function>  
<function>lwres\_gabnrequest\_parse()</function>  
and  
<function>lwres\_gabnresponse\_parse()</function>  
all return  
<errorcode>LWRES\_R\_SUCCESS</errorcode>  
on  
success.  
They return  
<errorcode>LWRES\_R\_NOMEMORY</errorcode>  
if memory allocation fails.  
<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>  
is returned if the available space in the buffer  
<parameter>b</parameter>  
is too small to accommodate the packet header or the  
<type>lwres\_gabnrequest\_t</type>  
and  
<type>lwres\_gabnresponse\_t</type>  
structures.  
<function>lwres\_gabnrequest\_parse()</function>  
and  
<function>lwres\_gabnresponse\_parse()</function>  
will return  
<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>  
if the buffer is not empty after decoding the received packet.

These functions will return  
<errorcode>LWRES\_R\_FAILURE</errorcode>  
if  
<structfield>pktflags</structfield>  
in the packet header structure  
<type>lwres\_lwpacket\_t</type>  
indicate that the packet is not a response to an earlier query.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_packet</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

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</refsect1>

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in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gabn.docbook

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/un.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/nameser/ns\_date.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/isc/irpmarshall.h

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*
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/parseint.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/syslog.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind9/getaddresses.c
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/logging.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/resolv/res\_update.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/dns\_nw.c  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/nsap\_addr.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/isc/logging.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/getgrent.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/dns\_p.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/dns\_gr.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/gen.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/gen\_gr.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/resolv/res\_mkupdate.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/nis.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_ntop.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/nameser/ns\_print.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/gethostent.c

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\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/dst/dst\_api.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/dst/support.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/dst/dst\_internal.h

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/ctl\_p.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/isc/ctl.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_cidr\_pton.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/resolv/res\_mkupdate.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/ctl\_clnt.c

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\* SHA-1 in C  
\* By Steve Reid <steve@edmweb.com>  
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\*  
\* Test Vectors (from FIPS PUB 180-1)  
\* "abc"  
\* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D  
\* "abcdbcdecdefdefgefghfghighijhijkijklklmklmnlmnomnopnopq"  
\* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1  
\* A million repetitions of "a"  
\* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F  
\*/

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/stdlib.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/portlist.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nsec\_47.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/ifiter\_getifaddrs.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/hash.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nsec\_47.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.c

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.h

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.\"
```

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```
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*/
/*
* Get the response to 'request' by filling in 'message'.
*
* 'options' is passed
to dns_message_parse(). See dns_message_parse()
* for more details.
*
* Requires:
*
* 'request' is a valid request for which the caller has received the
* completion event.
*
* The result code of the completion event was ISC_R_SUCCESS.
*
*/
```

\* Returns:  
\*  
\* ISC\_R\_SUCCESS  
\*  
\* Any result that dns\_message\_parse() can return.  
\*/

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dlv\_65323.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dlv\_65323.h  
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Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/hex.c

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/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/gai\_strerror.c

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/ptr\_12.h

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/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/win32/version.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mg\_8.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/txt\_16.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/eventclass.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/version.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mg\_8.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/thread.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/a\_1.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/condition.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/null\_10.h

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/thread.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mr_9.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/threads/condition.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/mutex.h
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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/error.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/error.c
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*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mx_15.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/hinfo_13.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/md_3.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/minfo_14.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mb_7.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/iscconf/version.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/opt_41.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/event.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/threads/include/isc/thread.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/version.c

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/assertions.c

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/isc/memcluster.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/cygwin/include/ansi\_realloc.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/memcluster.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/bsd/utimes.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/isc/heap.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/include/isc/list.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/heap.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/any_255/tsig_250.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdataslab.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/ncache.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/master.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/dispatch.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/db.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/random.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/resolver.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/cache.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/sockaddr.c
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/tkey\_249.c  
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/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/zone.h  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/dispatch.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/dnssec.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdataset.c  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/resolv/res\_mkquery.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/resolv/res\_comp.c

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Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwinetntop.c
```

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```
/*
* eventlib.em
*
* Eventlib error message compiler input file
*
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*/
```

```
/*
* The file basename is the facility name, the name is made
* uppercase. This file defines facility EVENTLIB
*/
module {
    description "EVENTLIB system messages";
}

errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
        "int" dispatch_time "event dispatch time";
    }
}
```

```

"int" elapsed_time "event elapsed time";
"int" hog_detected "event hog detected";
"int" set_count "event set count since dispatch"
}
explanation
    "Eventlib historical summary for detected hog.";

action
"This event summary is part of a CPUHOG or TIMEHOG error, "
"providing diagnostic details useful
to engineering. "
"Save this summary message along with the HOG error. ";

tac_details
    "Eventlib historical summary for detected hog.";
}

errmsg HISTELEM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

    arg {
"int" set_count "element set count";
"char *" position_string "event call type";
"char *" position_string "event condition";
"int" set_time "element set time";
"int" unset_time "element unset time";
"int" hog_check "element hog check result";
"int" caller "caller builtin return address";
"char *" any_string "element callback render buffer";
    }
explanation
    "Eventlib historical element for detected hog.";

action
"This event element is part of a CPUHOG or TIMEHOG error, "
"providing diagnostic details useful to engineering. "
"Save all element
messages along with the HOG error. ";

tac_details
    "Eventlib historical element for detected hog.";
}

```

Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/eventlib.em

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.\n \$Id: lwres\_packet.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\n

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\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/socket.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/soa\_6.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/netaddr.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/txt\_16.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/buffer.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/event.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/pthreads/include/isc/mutex.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/timer.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/timer.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/null\_10.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/lex.h

\*

```
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/proforma.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/buffer.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/opt_41.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/a_1.c
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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/iscconf/include/iscconf/namedconf.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/netscope.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/win32os.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/apl_42.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/opcode.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/region.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/apl_42.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst_openssl.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/order.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/netscope.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/win32os.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/ds_43.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/lwconfig.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/ds.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/ds_43.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/order.h
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-->

<!-- \$Id: lwres\_context.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>  
<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_context</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_context\_create</refname>

<refname>lwres\_context\_destroy</refname>

<refname>lwres\_context\_nextserial</refname>

<refname>lwres\_context\_initserial</refname>

<refname>lwres\_context\_freemem</refname>

<refname>lwres\_context\_allocmem</refname>

<refname>lwres\_context\_sendrecv</refname>

<refpurpose>lightweight resolver context management</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_context\_create</function></funcdef>

<paramdef>lwres\_context\_t \*\*contextp</paramdef>

<paramdef>void \*arg</paramdef>

<paramdef>lwres\_malloc\_t malloc\_function</paramdef>

```

<paramdef>lwres_free_t free_function</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_context_destroy</function></funcdef>
<paramdef>lwres_context_t
**contextp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_initserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_uint32_t
<function>lwres_context_nextserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_freemem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_allocmem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void *
<function>lwres_context_sendrecv</function></funcdef>
<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recvd_len</paramdef>

```

</funcprototype>  
</funcsynopsis>  
</refsynopsisdiv>  
<refsect1>  
<title>DESCRIPTION</title>  
<para>  
<function>lwres\_context\_create()</function>  
creates a  
<type>lwres\_context\_t</type>  
structure for use in lightweight resolver operations.  
It holds a socket and other data needed for communicating  
with a resolver daemon.  
The new  
<type>lwres\_context\_t</type>  
is returned through  
<parameter>contextp</parameter>,

a pointer to a  
<type>lwres\_context\_t</type>  
pointer. This  
<type>lwres\_context\_t</type>  
pointer must initially be NULL, and is modified  
to point to the newly created  
<type>lwres\_context\_t</type>.

</para>  
<para>  
When the lightweight resolver needs to perform dynamic memory  
allocation, it will call  
<parameter>malloc\_function</parameter>  
to allocate memory and  
<parameter>free\_function</parameter>

to  
free it. If  
<parameter>malloc\_function</parameter>  
and  
<parameter>free\_function</parameter>

are NULL, memory is allocated using  
.Xr malloc 3  
and  
<citrefentry>  
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>  
</citrefentry>.

It is not permitted to have a NULL  
<parameter>malloc\_function</parameter>

and a non-NULL

<parameter>free\_function</parameter>

or vice versa.

<parameter>arg</parameter>

is passed as the first parameter to the memory allocation functions.

If

<parameter>malloc\_function</parameter>

and

<parameter>free\_function</parameter>

are NULL,

<parameter>arg</parameter>

is unused and should be passed as NULL.

</para>

<para>

Once memory for the structure has been allocated, it is initialized using

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>

and returned via

<parameter>\*contextp</parameter>.

</para>

<para>

<function>lwres\_context\_destroy()</function>

destroys a

<type>lwres\_context\_t</type>,

closing

its socket.

<parameter>contextp</parameter>

is a pointer to a pointer to the context that is to be destroyed.

The pointer will be set to NULL when the context has been destroyed.

</para>

<para>

The context holds a serial number that is used to identify resolver request packets and associate responses with the corresponding requests.

This serial number is controlled using

<function>lwres\_context\_initserial()</function>

and

<function>lwres\_context\_nextserial()</function>.

<function>lwres\_context\_initserial()</function>

sets the serial number for context

<parameter>\*ctx</parameter>

to

<parameter>serial</parameter>.

<function>lwres\_context\_nextserial()</function>

increments the serial number and returns the previous value.

</para>

<para>

Memory for a lightweight resolver context is allocated and freed using

<function>lwres\_context\_allocmem()</function>

and

<function>lwres\_context\_freemem()</function>.

These use whatever allocations were defined when the context was created

with

<function>lwres\_context\_create()</function>.

<function>lwres\_context\_allocmem()</function>

allocates

<parameter>len</parameter>

bytes of memory and if successful returns a pointer to the allocated storage.

<function>lwres\_context\_freemem()</function>

frees

<parameter>len</parameter>

bytes of space starting at location

<parameter>mem</parameter>.

</para>

<para>

<function>lwres\_context\_sendrecv()</function>

performs I/O for the context

<parameter>ctx</parameter>.

Data are read and written from the context's socket.

It writes data from

<parameter>sendbase</parameter>

&mdash; typically a lightweight resolver query packet &mdash;

and waits for a reply which is copied to the receive buffer at

<parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is returned in

<parameter>\*recvd\_len</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_context\_create()</function>

returns

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

if

memory for the

<type>struct lwres\_context</type>

could not be allocated,

<errorcode>LWRES\_R\_SUCCESS</errorcode>

otherwise.

</para>

<para>

Successful calls to the memory allocator

<function>lwres\_context\_allocmem</function>

return a pointer to the start of the allocated space.

It returns NULL if memory could not be allocated.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>

is returned when

<function>lwres\_context\_sendrecv</function>

completes successfully.

<errorcode>LWRES\_R\_IOERROR</errorcode>

is returned if an I/O error occurs and

<errorcode>LWRES\_R\_TIMEOUT</errorcode>

is returned if

<function>lwres\_context\_sendrecv</function>

times out waiting for a response.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

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in path(s):

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/bsd/daemon.c

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.\"
.\" $Id: lwres_gethostent.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

#### Found

in path(s):

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```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/lex.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/result.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/gen.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/task.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/sockaddr.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/types.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/name.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/name.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rcode.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/time.c
```



```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdata.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/socket.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata.c
```

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Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/keyflags.h
```

```
*
```

```
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/ipv6.c
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nls/msgcat.c
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.c
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/serial.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rcode.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/rdatastructpre.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/netdb.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/tests/include/tests/t_api.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/kx_36.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/dbtable.c
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rp_17.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rbtdb64.h
```

```
*
```

```
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rp_17.c
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rbtdb64.c
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/lib.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/dbtable.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/lib.c
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/a6_38.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdatasetiter.h
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dname_39.c
```

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/syslog.h
```

```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dname_39.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/cert.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/app.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/any_255/tsig_250.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/lfsr.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/gpos_27.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/mutexblock.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/msgcat.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/secproto.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/lib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/time.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/commandline.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rbtdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/dir.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/stdtime.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/loc_29.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst_result.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/callbacks.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tcpmsg.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/resultclass.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/serial.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/once.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/dir.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdatalist.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/dbiterator.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap_22.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/wks_11.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/ttl.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/taskpool.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/app.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/ipv6.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/px_26.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rt_21.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/compress.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/netdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/bufferlist.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/stdtime.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst_lib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/bitstring.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/cache.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/unspec_103.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/taskpool.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/cert_37.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/stdtime.c

```

```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/dir.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/dbiterator.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/key_25.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/threads/include/isc/once.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/tcpmsg.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lwpacket.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/dir.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/interfaceiter.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/secalg.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/gen-unix.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/int.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/mutexblock.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/srv_33.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/rdatastructsuf.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/syslog.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/lib.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/once.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/magic.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/int.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tkey.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/isdn_20.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdatasetiter.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/bitstring.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/afbdb_18.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sig_24.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/ttl.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/journal.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/base64.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rootns.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/bufferlist.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/stdtime.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/random.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/hs_4/a_1.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/fixedname.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/x25_19.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/interfaceiter.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/lang.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/lib.h

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/lookup.c  
 \*  
 /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/stat.h  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sdb.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/peer.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/ssu.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/string.h  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/context.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/threads/thread.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/ssu.h  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/peer.h

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.\\$Id: heap.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$\n
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 .\n
 .\Os

OPERATING\_SYSTEM [version/release]

.\" The following requests should be uncommented and  
.\" used where appropriate. This next request is  
.\" for sections 2 and 3 function return values only.  
.\" This next request is for sections 1, 6, 7 & 8 only  
.\" .Sh ENVIRONMENT  
.\" .Sh EXAMPLES  
.\" This next request is for sections 1, 6, 7 & 8 only  
.\" (command return values (to shell) and  
.\" fprintf/stderr type diagnostics)  
.\" The next request is for sections 2 and 3 error  
.\" and signal handling only.  
.\" .Sh STANDARDS  
.\" .Sh HISTORY  
.\" .Sh BUGS

Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/heap.mdoc

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.\" \$Id: eventlib.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_inetntop.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_hstrerror.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_inetntop.docbook  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gnba.docbook  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_packet.html  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_buffer.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.docbook  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_noop.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.docbook  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_resutil.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres.docbook  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_buffer.docbook  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gethostent.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_context.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gnba.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_config.html  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_hstrerror.docbook  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_packet.docbook  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gabn.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getipnode.html  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_noop.docbook  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.html

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\*  
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```
*/
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due
to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

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```
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```

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.\"
.\" $Id: lwres_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_config.3
```

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```
/*
```

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\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/syslog.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/parseint.c

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# \$Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp \$

# Search for machine-generated header files in the

build tree,

# and for normal headers in the source tree (\${top\_srcdir}).

# We only need to look in OS-specific subdirectories for the

# latter case, because there are no machine-generated OS-specific

# headers.

ISC\_INCLUDES = @BIND9\_ISC\_BUILDINCLUDE@ \

-I\${top\_srcdir}/lib/isc \

-I\${top\_srcdir}/lib/isc/include \

-I\${top\_srcdir}/lib/isc/unix/include \

-I\${top\_srcdir}/lib/isc/@ISC\_THREAD\_DIR@/include

ISCCFG\_INCLUDES = @BIND9\_ISCCFG\_BUILDINCLUDE@ \

-I\${top\_srcdir}/lib/isccfg/include

DNS\_INCLUDES = @BIND9\_DNS\_BUILDINCLUDE@ \

-I\${top\_srcdir}/lib/dns/include \

-I\${top\_srcdir}/lib/dns/sec/dst/include

OMAPI\_INCLUDES = @BIND9\_OMAPI\_BUILDINCLUDE@ \

-I\${top\_srcdir}/lib/omapi/include

LWRES\_INCLUDES = @BIND9\_LWRES\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/lwres/include

TEST\_INCLUDES = \  
-I\${top\_srcdir}/lib/tests/include

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\*

\* BINOS specific changes to associate memcluster with an evctx

\*

\* March 2014,  
Aswin Kuppusami

\*/

Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/memcluster\_p.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/memcluster\_binoc

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/\* "UH Universal Hashing Library"

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\* SHA-1 in C

\* By Steve Reid <steve@edmweb.com>

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\* The algorithm

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\*

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

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

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\*

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

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

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

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

\*

\* Changed so as no longer to depend on Colin Plumb's `usual.h'

\* header definitions; now uses stuff from dpkg's config.h

\* - Ian Jackson <ijackson@nyx.cs.du.edu>.

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/gen-win32.h

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\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/print.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/string.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/nsec.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdatalist.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/px\_26.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/tkey.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rt\_21.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/tkey\_249.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/kx\_36.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/log.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/print\_p.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/afbdb\_18.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/db.c

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/log.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/print.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/xfrin.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/resolver.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/keyvalues.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/naptr\_35.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/nsec.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/srv\_33.c

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst\_internal.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst\_parse.h

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.\" \$Id: lwres\_getaddrinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

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in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.3

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/dst/md5\_locl.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/dst/md5\_dgst.c

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\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isccfg/include/isccfg/grammar.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/ds.c

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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/eventlib.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/eventlib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_timers.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/eventlib_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/misc.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_files.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_connects.c
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```

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.\"
.\" $Id: lwres_hsterror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_hsterror.3
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```

```
.\" $Id: tree.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">

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<!-- \$Id: lwres\_gethostent.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_gethostent</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_gethostbyname</refname>

<refname>lwres\_gethostbyname2</refname>

<refname>lwres\_gethostbyaddr</refname>

<refname>lwres\_gethostent</refname>



```

<refname>lwres_sethostent</refname>
<refname>lwres_endhostent</refname>
<refname>lwres_gethostbyname_r</refname>
<refname>lwres_gethostbyaddr_r</refname>
<refname>lwres_gethostent_r</refname>
<refname>lwres_sethostent_r</refname>
<refname>lwres_endhostent_r</refname>
<refpurpose>lightweight resolver get network host entry</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname</function></funcdef>
<paramdef>const char *name</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct
  hostent *
<function>lwres_gethostbyname2</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>

```

```

void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int
buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
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<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
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<funcdef>
void
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</funcprototype>
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<funcdef>
void
<function>lwres_endhostent_r</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>

```

</funcsynopsis>  
</refsynopsisdiv>

<refsect1>  
<title>DESCRIPTION</title>

<para>

These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard

<citerefentry>  
<refentrytitle>gethostent</refentrytitle><manvolnum>3  
</manvolnum>  
</citerefentry>

functions provided by most operating systems.

They use a

<type>struct hostent</type>  
which is usually defined in  
<filename>&lt;namedb.h&gt;</filename>.

<programlisting>

```
struct hostent {  
    char  *h_name;    /* official name of host */  
    char  **h_aliases; /* alias list */  
    int   h_addrtype; /* host address type */  
    int   h_length;   /* length of address */  
    char  **h_addr_list; /* list of addresses from name server */  
};  
#define h_addr h_addr_list[0] /* address, for backward compatibility */
```

</programlisting>

</para>

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

```

<listitem>
<para>
The type of address being returned &mdash;
<type>PF_INET</type>
or
<type>PF_INET6</type>.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_length</constant></term>
<listitem>
<para>
The length of the address in bytes.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_addr_list</constant></term>
<listitem>
<para>
A <type>NULL</type>
terminated array of network addresses for the host.
Host addresses are returned in network byte order.
</para>
</listitem></varlistentry>
</variablelist>
</para>
<para>
For backward compatibility with very old software,
<constant>h_addr</constant>
is the first address in
<constant>h_addr_list.</constant>
</para>
<para>
<function>lwres_ghostent()</function>,
<function>lwres_sethostent()</function>,
<function>lwres_endhostent()</function>,
<function>lwres_ghostent_r()</function>,
<function>lwres_sethostent_r()</function>
and
<function>lwres_endhostent_r()</function>
provide
iteration over the known host entries on systems that
provide such functionality through facilities like
<filename>/etc/hosts</filename>
or NIS. The lightweight resolver does not currently implement
these functions; it only provides them as stub functions that always
return failure.
</para>
<para>

```

`lwres_gethostbyname()` and `lwres_gethostbyname2()` look up the hostname `name`. `lwres_gethostbyname()` always looks for an IPv4 address while `lwres_gethostbyname2()` looks for an address of protocol family `af`: either `PF_INET` or `PF_INET6` &mdash; IPv4 or IPV6 addresses respectively. Successful calls of the functions return a `struct hostent` for the name that was looked up. `NULL` is returned if the lookups by `lwres_gethostbyname()` or `lwres_gethostbyname2()` fail.

Reverse lookups of addresses are performed by `lwres_gethostbyaddr()`. `addr` is an address of length `len` bytes and protocol family `type` &mdash; `PF_INET` or `PF_INET6`. `lwres_gethostbyname_r()` is a thread-safe function for forward lookups. If an error occurs, an error code is returned in `*error`. `resbuf` is a pointer to a `struct hostent` which is initialised by a successful call to `lwres_gethostbyname_r()`. `buf` is a buffer of length `len` bytes which is used to store the `h_name`, `h_aliases`, and `h_addr_list` elements of the `struct hostent` returned in `resbuf`. Successful calls to `lwres_gethostbyname_r()` return `resbuf`, which is a pointer to the `struct hostent` it created.

`lwres_gethostbyaddr_r()` is a thread-safe function that performs a reverse lookup of address `addr` which is `len` bytes long and is of protocol family `type` &mdash; `PF_INET` or `PF_INET6`. If an error occurs, the error code is returned in `*error`. The other function parameters are identical to those in `lwres_gethostbyname_r()`. `resbuf` is a pointer to a `struct`

hostent</type> which is initialised by a successful call to  
<function>lwres\_gethostbyaddr\_r()</function>.  
<parameter>buf</parameter>  
is a buffer of length  
<parameter>len</parameter> bytes which is used to store the  
<constant>h\_name</constant>, <constant>h\_aliases</constant>, and  
<constant>h\_addr\_list</constant> elements of the <type>struct  
hostent</type> returned in <parameter>resbuf</parameter>. Successful  
calls to <function>lwres\_gethostbyaddr\_r()</function> return  
<parameter>resbuf</parameter>, which is a pointer to the  
<function>struct hostent()</function> it created.  
</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The functions

<function>lwres\_gethostbyname()</function>,&br/><function>lwres\_gethostbyname2()</function>,&br/><function>lwres\_gethostbyaddr()</function>,&br/>and

<function>lwres\_gethostent()</function>

return NULL to indicate an error. In this case the global variable

<type>lwres\_h\_errno</type>

will contain one of the following error codes defined in  
<filename>&lt;lwres/netdb.h&gt;</filename>:

<type>lwres\_h\_errno</type>

will contain one of the following error codes defined in

<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>

<varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>

<listitem>

<para>

The

host or address was not found.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY\_AGAIN</constant></term>

<listitem>

<para>

A recoverable error occurred, e.g., a timeout.

Retrying the lookup may succeed.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_RECOVERY</constant></term>

<listitem>

<para>

A non-recoverable error occurred.

</para>  
</listitem></varlistentry>  
<varlistentry><term><constant>NO\_DATA</constant></term>  
</listitem>

<para>  
The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO\_ADDRESS is accepted as a synonym for NO\_DATA for backwards compatibility.

</para>  
</listitem></varlistentry>  
</variablelist>  
</para>

<para>  
<citerefentry>  
<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3  
</manvolnum>  
</citerefentry>  
translates these error codes to suitable error messages.

<para>  
<function>lwres\_gethostent()</function>  
and  
<function>lwres\_gethostent\_r()</function>  
always  
return  
<type>NULL</type>.

<para>  
Successful calls to <function>lwres\_gethostbyname\_r()</function> and <function>lwres\_gethostbyaddr\_r()</function> return <parameter>resbuf</parameter>, a pointer to the <type>struct hostent</type> that was initialised by these functions. They return <type>NULL</type> if the lookups fail or if <parameter>buf</parameter> was too small to hold the list of addresses and names referenced by the <constant>h\_name</constant>, <constant>h\_aliases</constant>, and <constant>h\_addr\_list</constant> elements of the <type>struct hostent</type>. If <parameter>buf</parameter> was too small, both <function>lwres\_gethostbyname\_r()</function> and <function>lwres\_gethostbyaddr\_r()</function> set the global variable <type>errno</type> to <errorcode>ERANGE</errorcode>.

</refsect1>

```
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getipnode</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
</para>
</refsect1>
```

```
<refsect1>
<title>BUGS</title>
<para>
<function>lwres_gethostbyname()</function>,
<function>lwres_gethostbyname2()</function>,
<function>lwres_gethostbyaddr()</function>
and
<function>lwres_endhostent()</function>
are
not thread safe; they return pointers to static data and
provide error codes through a global variable.
Thread-safe versions for name and address lookup are provided by
<function>lwres_gethostbyname_r()</function>,
and
<function>lwres_gethostbyaddr_r()</function>
respectively.
</para>
<para>
The resolver daemon does not currently support any non-DNS
name services such as
<filename>/etc/hosts</filename>
or
<type>NIS</type>,
consequently the above functions don't, either.
</para>
</refsect1>
</refentry>
```

Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_gethostent.docbook



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-->

<!-- $Id: lwres_config.docbook,v
1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>

<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_config</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
```

```

<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const
char *filename</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init</function>
creates an empty
<type>lwres_conf_t</type>
structure for lightweight resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_clear</function>
frees up all the internal memory used by
that

```

`<type>lwres_conf_t</type>`  
structure in resolver context  
`<parameter>ctx</parameter>`.  
</para>  
<para>  
`<function>lwres_conf_parse()</function>`  
opens the file  
`<parameter>filename</parameter>`  
and parses it to initialise the resolver context  
`<parameter>ctx</parameter>`'s  
`<type>lwres_conf_t</type>`  
structure.  
</para>  
<para>  
`<function>lwres_conf_print()</function>`  
prints  
the  
`<type>lwres_conf_t</type>`  
structure for resolver context  
`<parameter>ctx</parameter>`  
to the  
`<type>FILE</type>`  
`<parameter>fp</parameter>`.  
</para>  
</refsect1>  
<refsect1>

#### `<title>RETURN VALUES</title>`

<para>  
`<function>lwres_conf_parse()</function>`  
returns  
`<errorcode>LWRES_R_SUCCESS</errorcode>`  
if it successfully read and parsed  
`<parameter>filename</parameter>`.  
It returns  
`<errorcode>LWRES_R_FAILURE</errorcode>`  
if  
`<parameter>filename</parameter>`  
could not be opened or contained incorrect  
resolver statements.  
</para>  
<para>  
`<function>lwres_conf_print()</function>`  
returns  
`<errorcode>LWRES_R_SUCCESS</errorcode>`  
unless an error occurred when converting the network addresses to a  
numeric host address string.  
If this happens, the function returns

```
<errorcode>LWRES_R_FAILURE</errorcode>.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>.
</refsect1>
<refsect1>
<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>
```

Found

in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_config.docbook
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.\" \$Id: lwres\_gai\_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwinetpton.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/symtab.c  
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/time.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/base64.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/task.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/rwlock.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/result.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/time.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/rwlock.c

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\*/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/resolv/res\_data.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_data.c

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AC\_REVISION(\$Revision: 1.1 \$)

AC\_INIT(resolv/herror.c)

AC\_PREREQ(2.13)

AC\_CONFIG\_HEADER(config.h)

AC\_CANONICAL\_HOST

AC\_PROG\_MAKE\_SET

AC\_PROG\_RANLIB

AC\_PROG\_INSTALL

AC\_SUBST(STD\_CINCLUDES)

AC\_SUBST(STD\_CDEFINES)

AC\_SUBST(STD\_CWARNINGS)

AC\_SUBST(CCOPT)

AC\_PATH\_PROG(AR,

```

ar)
ARFLAGS="cruv"
AC_SUBST(AR)
AC_SUBST(ARFLAGS)

# The POSIX ln(1) program.  Non-POSIX systems may substitute
# "copy" or something.
LN=ln
AC_SUBST(LN)

case "$AR" in
  "")
    AC_MSG_ERROR([
ar program not found.  Please fix your PATH to include the directory in
which ar resides, or set AR in the environment with the full path to ar.
])

    ;;
esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etags)

#
# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
  AC_MSG_CHECKING(for Exuberant Ctags etags)
  if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
    AC_MSG_RESULT(yes)
    ETAGS="$ETAGS -L"
  else
    AC_MSG_RESULT(no)
  fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL,
  perl5 perl)
AC_SUBST(PERL)

#

```

```

# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
'${prefix}/include')
    includedir='${prefix}/bind/include'
    ;;
esac
case "$libdir" in
'${prefix}/lib')
    libdir='${prefix}/bind/lib'
    ;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
    ;;
*)
    #
    # Not all systems have dirname.
    #
    changequote({, })
    ac_dir="" echo $INSTALL | sed 's%/[^\/*]*$%%'
    changequote([, ])

    ac_prog="" echo
$INSTALL | sed 's%.*/*%%'
    test "$ac_dir" = "$ac_prog" && ac_dir=.
    test -d "$ac_dir" && ac_dir="`(cd \"$ac_dir\" && pwd)`"
    INSTALL="$ac_dir/$ac_prog"
    ;;
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#

```

```

if test "X$CC" = "X" ; then
case "$host" in
*-dec-osf*)
    CC="cc"
    ;;
*-solaris*)
    # Use Sun's cc if it is available, but watch
    # out for /usr/ucb/cc; it will never be the right
    # compiler to use.
    #
    # If setting CC here fails, the AC_PROG_CC done
    # below might still find gcc.
IFS="${IFS= }"; ac_save_ifs="$IFS"; IFS=":"
for ac_dir in $PATH; do
    test -z "$ac_dir" && ac_dir=.
    case
"$ac_dir" in
/usr/ucb)
    # exclude
    ;;
*)
    if test -f "$ac_dir/cc"; then
        CC="$ac_dir/cc"
        break
    fi
    ;;
esac
done
IFS="$ac_save_ifs"
;;
*-hp-hpux*)
    CC="cc"
    ;;
mips-sgi-irix*)
    CC="cc"
    ;;
esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

```

```

AC_C_CONST
AC_C_INLINE
AC_TYPE_SIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
#
case $ac_cv_header_unistd_h in
yes)
AC_MSG_CHECKING(if unistd.h defines fd_set)
AC_TRY_COMPILE([
#include <unistd.h>,
[fd_set read_set; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
],
[AC_MSG_RESULT(no)
case ac_cv_header_sys_select_h in
yes)
ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
;;
no)
AC_MSG_ERROR([need either working unistd.h or sys/select.h])
;;
esac
])
;;
no)
case ac_cv_header_sys_select_h
in
yes)
ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
;;
no)
AC_MSG_ERROR([need either unistd.h or sys/select.h])
;;
esac
;;
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-gr Build ....],
want_irs_gr="$withval", want_irs_gr="no")

```

```

case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
    WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}"
;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pw Build ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
    WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nis Build ....],
want_irs_nis="$withval",
want_irs_nis="no")
case "$want_irs_nis" in
yes)
    WANT_IRS_NIS="#define WANT_IRS_NIS 1"
    WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}"
    case "$want_irs_gr" in
    yes)
        WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";;
    *)
        WANT_IRS_NISGR_OBJS="";;
    esac
    case "$want_irs_pw" in
    yes)
        WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";;
    *)
        WANT_IRS_NISPW_OBJS="";;
    esac
;;
*)
    WANT_IRS_NIS="#undef WANT_IRS_NIS"
    WANT_IRS_NIS_OBJS=""
    WANT_IRS_NISGR_OBJS=""
    WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)

```

```

AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval",
use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
*-openbsd*)
devrandom=/dev/srandom
;;
*)
devrandom=/dev/random
;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
"$devrandom"),)
;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])
;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;

```

```

esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads disable multithreading])
case "$enable_threads" in
yes|")
AC_MSG_RESULT(yes)
use_threads=true
;;
no)
AC_MSG_RESULT(no)
use_threads=false
;;
*)
AC_MSG_ERROR([--enable-threads takes yes or no])
;;
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case
"$host" in
*-netbsd*)
# NetBSD has multiple pthreads implementations. The
# recommended one to use is "unproven-pthreads". The
# older "mit-pthreads" may also work on some NetBSD
# versions. The PTL2 thread library does not
# currently work with bind9, but can be chosen with
# the --with-ptl2 option for those who wish to
# experiment with it.
CC="gcc"
AC_MSG_CHECKING(which NetBSD thread library to use)

AC_ARG_WITH(ptl2,
[ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}

```



```

if test "X$use_ptl2" = "Xyes"
then
  AC_MSG_RESULT(PTL2)
  AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
  CC=ptlgcc
else
  if test ! -d $LOCALBASE/threads
  then
    AC_MSG_RESULT(none)
    use_threads=false
  fi

  if $use_threads
  then
    AC_MSG_RESULT(mit-threads/unproven-threads)
    pkg="$LOCALBASE/threads"
    lib1="-L$pkg/lib -Wl,-R$pkg/lib"
    lib2="-lthread
-lm -lgcc -lthread"
    LIBS="$lib1 $lib2 $LIBS"
    CPPFLAGS="$CPPFLAGS -I$pkg/include"
    STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
  fi
fi
;;
*)
AC_CHECK_LIB(pthread, pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create_system,,
AC_CHECK_LIB(c_r, pthread_create,,
AC_CHECK_LIB(c, pthread_create,,
use_threads=false))))
;;
esac
fi

if $use_threads
then
  #
  # We'd like to use sigwait() too
  #
  AC_CHECK_LIB(c, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, _Psigwait,
    AC_DEFINE(HAVE_SIGWAIT),))

```

```

)

AC_CHECK_FUNC(pthread_attr_getstacksize,
    AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
    AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
    ;;
#
#
BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsd3.*|*-bsd4.0*)
    AC_DEFINE(NEED_PTHREAD_INIT)
    ;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
    AC_DEFINE(HAVE_LINUXTHREADS)
    ;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
    AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
    AC_CHECK_FUNC(pthread_setconcurrency,
        AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
    AC_DEFINE(POSIX_GETPWUID_R)
    AC_DEFINE(POSIX_GETPWNAM_R)
    AC_DEFINE(POSIX_GETGRGID_R)
    AC_DEFINE(POSIX_GETGRNAM_R)
    ;;
*hpux11*)
    AC_DEFINE(_PTHREADS_DRAFT4)
    ;;
#

```

```

# UnixWare does things its own way.
#
*~UnixWare*)
  AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
  ;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf,
AC_DEFINE(HAVE_SYSCONF),)

if test "X$GCC" = "Xyes"; then
case "$host" in
*~freebsd*)
  CC="$CC -pthread"
  CCOPT="$CCOPT -pthread"
  STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
  ;;
*~openbsd*)
  CC="$CC -pthread"
  CCOPT="$CCOPT -pthread"
  ;;
*~solaris*)
  LIBS="$LIBS -lthread"
  ;;
*~ibm-aix*)
  STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
  ;;
esac
else
case $host in
*~dec-osf*)
  CC="$CC -pthread"
  CCOPT="$CCOPT -pthread"
  ;;
*~solaris*)
  CC="$CC -mt"
  CCOPT="$CCOPT -mt"
  ;;
*~ibm-aix*)
  STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
  ;;
*~UnixWare*)
  CC="$CC -Kthread"
  CCOPT="$CCOPT -Kthread"
  ;;

```

```

    esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="\${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="\${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="\${WANT_IRS_THREADS_OBJS}"
thread_dir=threads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat,
AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMESLINKID="#define USE_IFNAMESLINKID 1"],
[USE_IFNAMESLINKID="#undef USE_IFNAMESLINKID"])
AC_SUBST(USE_IFNAMESLINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
,
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)

```

```

AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

#
#
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
  AC_MSG_RESULT(yes)
else
  AC_MSG_RESULT(no)
fi

#
# End of pthreads stuff.
#

#
# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Xyes"; then
  STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
  case $host in
    *-dec-osf*)
      CC="$CC -std"
      CCOPT="$CCOPT -std"
      MKDEPCC="$CC"
      ;;
    *-hp-hpux*)
      CC="$CC -Ae -z"
      # The version of the C compiler that constantly warns about
      # 'const' as well as alignment issues is unfortunately not
      # able to be discerned via the version of the operating

```

```

        # system, nor does cc have a version flag.
case
"$CC +W 123 2>&1`" in
*Unknown?option*)
    STD_CWARNINGS="+w1"
    ;;
*)
    # Turn off the pointlessly noisy warnings.
    STD_CWARNINGS="+w1 +W 474,530"
    ;;
esac
CCOPT="$CCOPT -Ae -z"
LIBS="-Wl,+vnocompatwarnings $LIBS"
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk """"BEGIN { colon=0; rec="" }; { for (i = 0 ; i < NF; i++)
{ if (colon && a[$i]) continue; if ($i == "\\") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec " :"}
colon = 1 continue; } if (length(rec $i) > 76) { print rec " \\"; rec = "\t" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1;
} } } END {print rec}"""" >>$TMP'
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
;;
*_sgi-irix*)
    STD_CWARNINGS="-fullwarn -woff 1209"
    #
    # Silence more than 250 instances of
    # "prototyped function redeclared without prototype"
    # and 11 instances of
    # "variable ... was set but never used"
    # from lib/dns/sec/openssl.
    #
    IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
    ;;
*_solaris*)
    MKDEPCFLAGS="-xM"
    ;;
*_UnixWare*)
    CC="$CC
-w"
    ;;
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
linux*)
    STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
    ;;

```

```

esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,
# AC_CHECK_LIB(socket, socket)
# AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
mips-sgi-irix*)
;;
*)
AC_CHECK_LIB(d4r, gethostbyname_r)
AC_CHECK_LIB(socket, socket)
AC_CHECK_LIB(nsl, inet_ntoa)
;;
esac

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
[ --with-purify[=PATH] use Rational purify],
use_purify="$withval", use_purify="no")

case "$use_purify" in
no)
;;
yes)
AC_PATH_PROG(purify_path,
purify, purify)
;;
*)

```

```

    purify_path="$use_purify"
    ;;
esac

case "$use_purify" in
no)
    AC_MSG_RESULT(no)
    PURIFY=""
    ;;
*)
    if test -f $purify_path || test $purify_path = purify; then
        AC_MSG_RESULT($purify_path)
        PURIFYFLAGS=""`echo $PURIFYOPTIONS`"
        PURIFY="$purify_path $PURIFYFLAGS"
    else
        AC_MSG_ERROR([$purify_path not found.

```

Please choose the proper path with the following command:

```

    configure --with-purify=PATH
)
fi
;;
esac

```

```

AC_SUBST(PURIFY)

```

```

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
    [ --with-libtool use GNU libtool (following indented options supported)],
    use_libtool="$withval", use_libtool="no")

```

```

case $use_libtool in
yes)
    AM_PROG_LIBTOOL
    O=lo
    A=la
    LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
    LIBTOOL_MODE_COMPILE='--mode=compile'
    LIBTOOL_MODE_INSTALL='--mode=install'
    LIBTOOL_MODE_LINK='--mode=link'
    ;;
*)
    O=o
    A=a
    LIBTOOL=

```



```

AC_SUBST(LIBTOOL)
LIBTOOL_MKDEP_SED=
LIBTOOL_MODE_COMPILE=
LIBTOOL_MODE_INSTALL=
LIBTOOL_MODE_LINK=
;;
esac

#
#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#

#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[ --enable-ipv6 use IPv6 [default=autodetect]])

case "$enable_ipv6" in
yes|"autodetect")
AC_DEFINE(WANT_IPV6)
;;
no)
;;
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([

```

```

#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
found_ipv6=yes],
[AC_MSG_RESULT(no)
found_ipv6=no])

#
# See whether
# IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")

case "$use_kame" in
no)
;;
yes)
kame_path=/usr/local/v6
;;
*)
kame_path="$use_kame"
;;
esac

case "$use_kame" in
no)
AC_MSG_RESULT(no)
;;
*)
if test -f $kame_path/lib/libinet6.a; then
AC_MSG_RESULT($kame_path/lib/libinet6.a)
LIBS="-L$kame_path/lib -linet6 $LIBS"
else
AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.

```

Please choose the proper path with the following command:

```

configure --with-kame=PATH
])
fi
;;
esac

```

```

#
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without
# it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
changequote({, })
case "$host" in
*-bsdi4.[01]*)
ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
isc_netinet6in6_hack="#include <netinet6/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
isc_netinet6in6_hack=""
;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in
*-UnixWare*)
ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
isc_netinetin6_hack="#include <netinet/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
isc_netinetin6_hack=""
;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
HAS_INET6_STRUCTS="#define
HAS_INET6_STRUCTS 1"

AC_MSG_CHECKING(for in6_addr)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinet6_hack
$isc_netinet6in6_hack
],
[struct in6_addr in6; return (0);],
[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

AC_MSG_CHECKING(for in6addr_any)
AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinet6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinet6_hack
$isc_netinet6in6_hack
],
[struct
sockaddr_in6 xyzy; xyzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"])
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([

```

```

#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_pktinfo xyzy; return (0);],
[AC_MSG_RESULT(yes)
  ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
  ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"])

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_storage xyzy; return (0);],
[AC_MSG_RESULT(yes)
  HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)

HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"])
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)

```

```

AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs
#   to come after checking for a Kame add-on,
#   which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_pton(0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON
1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

```

```

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1")

AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
*-dec-osf*)
# Turn on 4.4BSD style sa_len support.
AC_DEFINE(_SOCKADDR_LEN)
;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef
HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
*-bsdi[2345]*) have_minimum_ifreq=yes;;
*-darwin*) have_minimum_ifreq=yes;;
*-freebsd*) have_minimum_ifreq=yes;;
*-lynxos*) have_minimum_ifreq=yes;;
*-netbsd*) have_minimum_ifreq=yes;;
*-next*) have_minimum_ifreq=yes;;
*-openbsd*) have_minimum_ifreq=yes;;
*-rhapsody*) have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
yes)
HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;

```

```

no)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";
*)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"
case "$host" in
*aix3.2*) PORT_DIR="port/aix32";;
*aix4*) PORT_DIR="port/aix4";;
*aux3*) PORT_DIR="port/aux3";;
*-bsdi2*) PORT_DIR="port/bsdos2";;
*-bsdi*) PORT_DIR="port/bsdos";;
*-cygwin*) PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;
*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynxos*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
    BSD_COMP="#define
BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
    PORT_DIR="port/solaris";;
*-solaris2.5*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
    PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;

```



```

*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define
ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],

```

```
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO),
[AC_MSG_RESULT(no)]]
```

```
AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])
```

```
AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)
```

```
AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)
```

```
AC_MSG_CHECKING(for
int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)
```

```
AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
```

```

ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
    [ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
    [ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
    [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
    [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
    [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"
AC_DEFINE(HAVE_GETADDRINFO)],
    [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
    [NEED_PSELECT="#undef NEED_PSELECT"],
    [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define
NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [

```

```

#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
[AC_MSG_RESULT(yes)
 AC_DEFINE(HAVE_IFLIST_SYSCTL)],
[AC_MSG_RESULT(no))]

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
[ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
[ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
[ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
[ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS print.$O"
 ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS print.c"
 ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
[USE_SYSEERROR_LIST="#undef
USE_SYSEERROR_LIST"],
[USE_SYSEERROR_LIST="#define USE_SYSEERROR_LIST 1"])
AC_SUBST(USE_SYSEERROR_LIST)

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
 ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "l"'],
[AC_MSG_RESULT(ll)
 ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'],
[AC_MSG_RESULT(default ll)
 ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT

```

```

"11")
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

#
# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
],[],
[ISC_SOCKETLEN_T="#define ISC_SOCKETLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[],
[ISC_SOCKETLEN_T="#define ISC_SOCKETLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
],[],
[ISC_SOCKETLEN_T="#define ISC_SOCKETLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
],[],
[ISC_SOCKETLEN_T="#define ISC_SOCKETLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKETLEN_T="#define
ISC_SOCKETLEN_T int"
AC_MSG_RESULT(int)
)))))

```

AC\_SUBST(ISC\_SOCKLEN\_T)

```
AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
[#include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
],
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int
*ngroups"
,
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
),
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)
```

AC\_CHECK\_FUNC(setgroupent,,AC\_DEFINE(NEED\_SETGROUPEMENT))

```
AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
int buflen) { }
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS
char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
```

```

NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r (unsigned long int, int, struct netent *,
                    char *, size_t, struct netent **, int *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errno"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN
int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],

```

```

AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define
NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)
,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,

```



```

AC_TRY_COMPILE(
[
#undef
__USE_MISC
#define __USE_MISC
#include <netdb.h>
void setnetent_r(int);
],[return (0);],[
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
],[return (0);],[
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
)
,
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include
<netdb.h>
void endnetent_r(void);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"

```

```

],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)
)
)
)
,
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include
<grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
int buflen) { }
],[return (0);],[
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"

```

```

GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
],
)
,
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENT_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

AC_CHECK_FUNC(endgrent_r,
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENT_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#undef
GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) {}
],
[return (0);],

```

```

[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int gethostbyname_r(const
char *name,
                struct hostent *result,
                struct hostent_data *hdptr);
],, [
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
                struct hostent *,
                char *, size_t,
                struct hostent **,
                int *);
],, [
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define
HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"

```

```

HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
],
)))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errno"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE([
#undef
_REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
], ,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[,]

```

```

HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
],
)
)
)
,
HOST_R_END_RESULT="#define
HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);],[
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);],[
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"],

```

```

AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      sethostent_r (int);,[]],
[HOST_R_SET_RESULT="#undef
HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
)
)
)
,
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

```

```

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
],[struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) {}
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <grp.h>

```

```

void
setgrent(void) {}
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,

```



```

AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD
(0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
NGR_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
,
)
)
)
)
,
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)

```

```

)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[
case
"$host" in
*bsdi*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
;;
*)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
;;
esac
]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
char *buffer, int buflen) { }
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define
PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"

```

```

PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
)
,
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define
PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT

```

```

#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
”
[
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
)
,
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setprotoent_r __P((int));
],[],
PROTO_R_SET_RESULT="#undef
PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
,
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[

```

```

#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {}
]
,
[]
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
,
)
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd
*"
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
], ,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"

```

```

AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE([
#include <pwd.h>
void setpwent_r(FILE **pwpf);
], ,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN
int"
,
AC_TRY_COMPILE([
#include <pwd.h>
int setpwent_r(FILE **pwpf);
], ,
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)
,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) {}
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"

```

```

SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN
struct servent *"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
)
,
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
[
#undef

```

```

_REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endservent_r(void);
]
,
,
[
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
]
,
)
,
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setservent_r(int);
]
"
[
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,
)
,
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define
SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)

```



```
AC_SUBST(SERV_R_SET_RETURN)
```

```
AC_TRY_COMPILE(  
[  
#undef _REENTRANT  
#define _REENTRANT  
#undef __USE_MISC  
#define __USE_MISC  
#include <unistd.h>  
#include <netdb.h>  
int inetgr(const char *netgroup, const char *host, const char *user, const char *domain);  
]  
”  
[  
INNETGR_ARGS="#undef INNETGR_ARGS"  
]  
,  
AC_TRY_COMPILE(  
[  
#undef _REENTRANT  
#define _REENTRANT  
#undef __USE_MISC  
#define __USE_MISC  
#include <unistd.h>  
#include <netdb.h>  
int inetgr(char *netgroup, char *host, char *user, char *domain);  
]  
”  
[  
INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"  
]  
,  
))
```

```
AC_TRY_COMPILE(  
[  
#undef _REENTRANT  
#define _REENTRANT  
#undef __USE_MISC  
#define __USE_MISC  
#include <unistd.h>  
#include <netdb.h>  
void setnetgrent(const char *);  
]  
”  
[  
SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"  
]  
]
```

```

,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void
setnetgrent(char *);
]
”
[
SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"
]
,
))
AC_SUBST(SETNETGRENT_ARGS)
AC_SUBST(INNETGR_ARGS)

#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
*-bsdi3.1*)
hack_shutup_sputaux=yes
;;
*-bsdi4.0*)
hack_shutup_sigwait=yes
hack_shutup_sputaux=yes
hack_shutup_in6addr_init_macros=yes
;;
*-bsdi4.1*)
hack_shutup_stdargcast=yes
;;
*-solaris2.8)
hack_shutup_pthreadonceinit=yes
hack_shutup_in6addr_init_macros=yes
;;
esac

case "$hack_shutup_pthreadonceinit" in

```

```

yes)
#
# Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
#
ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
;;
esac

case
"$hack_shutup_sigwait" in
yes)
#
# Shut up a -Wmissing-prototypes warning for sigwait().
#
AC_DEFINE(SHUTUP_SIGWAIT)
;;
esac

case "$hack_shutup_sputaux" in
yes)
#
# Shut up a -Wmissing-prototypes warning from <stdio.h>.
#
AC_DEFINE(SHUTUP_SPUTAUX)
;;
esac

case "$hack_shutup_stdargcast" in
yes)
#
# Shut up a -Wcast-qual warning from va_start().
#
AC_DEFINE(SHUTUP_STDARG_CAST)
;;
esac

case "$hack_shutup_in6addr_init_macros" in
yes)
AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
;;
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

```

```

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
  make/rules
  make/mkdep
  make/includes
  Makefile
  bsd/Makefile
  dst/Makefile
  include/Makefile
  inet/Makefile
  irs/Makefile
  isc/Makefile
  nameser/Makefile
  port_after.h
  port_before.h
  resolv/Makefile
  port/Makefile
  ${PORT_DIR}/Makefile
  ${PORT_INCLUDE}/Makefile
)

#
# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:

Found in path(s):
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/configure.in
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```

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/irp\_gr.c

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/hmacmd5.c

\*

\*/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/stdio.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/keyboard.c

- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/condition.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/context.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/resource.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/nothreads/condition.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwpacket.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/ntpats.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/resource.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/os.c
- \*
- /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/version.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/fsaccess.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lang.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/gai\_strerror.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/unistd.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/offset.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/fsaccess.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/keyboard.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/stats.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/keyboard.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/socket\_p.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/keytable.h
- \*
- /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/hmacmd5.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/timer\_p.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/platform.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/ondestroy.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwres\_noop.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/ondestroy.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/hex.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/win32/bindevt/bindevt.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/timer.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/formatcheck.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/stats.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/keyboard.c
- \*
- /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/entropy.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/bit.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwres\_grbn.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/netdb.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lwres.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/fsaccess.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/quota.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/timer.c
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/soa.h
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/netdb.h.in
- \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/nothreads/mutex.c

```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/resource.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/errno2result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/lookup.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/int.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/offset.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/int.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/thread.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/assert_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/task_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/quota.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/diff.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/file.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/keytable.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/forward.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/net.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/sdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/once.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwresutil.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/forward.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/errno2result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/netdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwres_gabn.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/thread.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/ipv6.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/os.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdatalist_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/stdio.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwbuffer.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/gethost.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/context_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/stdio.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/soa.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/gssapictx.c
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind9/include/bind9/getaddresses.h

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/ntgroups.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/version.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/sterror.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind9/include/bind9/version.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind9/version.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind9/include/bind9/check.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/DLLMain.c

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/platform.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/zonekey.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/platform.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/platform.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind9/win32/DLLMain.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/sterror.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/platform.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/bind\_registry.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/sterror.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/version.h

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/ntpaths.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/syslog.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/platform.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/bindevt.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/key.c

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 \*  
 \* @(#)cdefs.h 8.7 (Berkeley) 1/21/94  
 \*/

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h

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.\"
.\" $Id: lwres_getnameinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"",
```

Found

in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_getnameinfo.3
```

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*/

/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp $ */
```

```
#ifndef LWRES_PLATFORM_H
```

```
#define
```

```
LWRES_PLATFORM_H 1
```

```
/*****
```

```
**** Platform-dependent defines.
```

```
****/
```

```
/**
```

```
*** Network.
```

```
***/
```

```

/*
* Define if this system needs the <netinet/in6.h> header file for IPv6.
*/
@LWRES_PLATFORM_NEEDNETINETIN6H@

/*
* Define if this system needs the <netinet6/in6.h> header file for IPv6.
*/
@LWRES_PLATFORM_NEEDNETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
* will be defined.
*/
@LWRES_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
* will be defined.
*/
@LWRES_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback,
* LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in_addr6, rather than in6_addr,
* LWRES_PLATFORM_HAVEINADDR6 will be defined.
*/
@LWRES_PLATFORM_HAVEINADDR6@

/*
* Defined if unistd.h does not cause fd_set to be declared.
*/
@LWRES_PLATFORM_NEEDSYSSELECTH@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/

```

@LWRES\_PLATFORM\_USEDECLSPEC@

/\*

\* Defined this system needs vsnprintf() and snprintf().

\*/

@LWRES\_PLATFORM\_NEEDVSNPRINTF@

/\*

\* If this system need a modern sprintf() that returns (int) not (char\*).

\*/

@LWRES\_PLATFORM\_NEEDSPRINTF@

#ifndef LWRES\_PLATFORM\_USEDECLSPEC

#define LIBLWRES\_EXTERNAL\_DATA

#else

#ifdef LIBLWRES\_EXPORTS

#define LIBLWRES\_EXTERNAL\_DATA \_\_declspec(dllexport)

#else

#define LIBLWRES\_EXTERNAL\_DATA \_\_declspec(dllimport)

#endif

#endif

#endif /\* LWRES\_PLATFORM\_H \*/

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/lcl\_nw.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/lcl\_gr.c

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/lcl\_sv.c

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.\n \$Id: lwres\_getipnode.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$\n

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in path(s):

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/lwconfig.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/validator.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/opensslrsa\_link.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/iscfg/parser.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/win32/socket.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/msgs.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/validator.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/entropy.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/diff.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/byaddr.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/byaddr.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/hex.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/unix/entropy.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/getrrset.c

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*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/util.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/ccmsg.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/lib.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/base64.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/alist.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/symtype.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/cc.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/symtab.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/lib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/base64.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/events.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/symtab.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/sexpr.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/alist.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/ccmsg.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/types.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/sexpr.c
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Found

in path(s):

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.3
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.\"
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\*

```

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/ipv6.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/gssapi_link.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/fsaccess.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/errno2result.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/threads/mutex.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/errno2result.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/file.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwres_gnba.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/request.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/entropy.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/iscconf/include/iscconf/cfg.h
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The following six UNCOMMENTED lines are required.
.\"Os OPERATING_SYSTEM [version/release]
.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" The following requests should be uncommented and
.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.

```

.\ " .Sh STANDARDS

.\ " .Sh HISTORY

.\ " .Sh BUGS

Found in path(s):

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.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh FILES
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS
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Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/include/lwres/list.h  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/heap.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/assertions.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/mem.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/heap.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/assertions.c

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.\"
.\" $Id: lwres_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_context.3

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.\"
.\" $Id: lwres.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found in path(s):

\*

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<!-- \$Id: lwres\_getipnode.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getipnode</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getipnodebyname</refname>

<refname>lwres\_getipnodebyaddr</refname>

<refname>lwres\_freehostent</refname>

<refpurpose>lightweight resolver nodename / address translation API</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include &lt;lwres/netdb.h&gt;</funcsynopsisinfo>

<funcprototype>

<funcdef>

struct hostent \*



```

<function>lwres_getipnodebyname</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
<paramdef>int flags</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_getipnodebyaddr</function></funcdef>
<paramdef>const void *src</paramdef>
<paramdef>size_t len</paramdef>
<paramdef>int
af</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freehostent</function></funcdef>
<paramdef>struct hostent *he</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

```

<refsect1>

<title>DESCRIPTION</title>

<para>

These functions perform thread safe, protocol independent  
nodename-to-address and address-to-nodename  
translation as defined in RFC2553.

</para>

<para>

They use a

<type>struct hostent</type>

which is defined in

<filename>namedb.h</filename>:

<programlisting>

```

struct hostent {
    char  *h_name;    /* official name of host */
    char  **h_aliases; /* alias list */
    int   h_addrtype; /* host address type */
    int   h_length;   /* length of address */
    char  **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */

```

</programlisting>

</para>

<para>

The members of this structure

are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned - usually

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A

<type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres\_getipnodebyname()</function>

looks

up addresses of protocol family

<parameter>af</parameter>

for the hostname

<parameter>name</parameter>.

The

<parameter>flags</parameter>

parameter contains ORed flag bits to

specify the types of addresses that are searched

for, and the types of addresses that are returned.

The flag bits are:

<variablelist>

<varlistentry><term><constant>AI\_V4MAPPED</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ALL</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes all known addresses (IPv6 and IPv4) to be returned.

If AI\_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ADDRCONFIG</constant></term>

<listitem>

<para>

Only return an IPv6 or

IPv4 address if here is an active network

interface of that type. This is not currently implemented

in the BIND 9 lightweight resolver, and the flag is ignored.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_DEFAULT</constant></term>

<listitem>

<para>

This default sets the

<constant>AI\_V4MAPPED</constant>

and

<constant>AI\_ADDRCONFIG</constant>

flag bits.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres\_getipnodebyaddr()</function>

performs a reverse lookup

of address

<parameter>src</parameter>

which is

<parameter>len</parameter>

bytes long.

<parameter>af</parameter>

denotes the protocol family, typically

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

<para>

<function>lwres\_freehostent()</function>

releases all the memory associated with

the

<type>struct hostent</type>

pointer

<parameter>he</parameter>.

Any memory allocated for the

<constant>h\_name</constant>,

<constant>h\_addr\_list</constant>

and

<constant>h\_aliases</constant>

is

freed, as is the memory for the

<type>hostent</type>

structure itself.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

If an error occurs,

<function>lwres\_getipnodebyname()</function>

and

<function>lwres\_getipnodebyaddr()</function>

set

<parameter>\*error\_num</parameter>

to an appropriate error code and the function returns a

<type>NULL</type>

pointer.

The error codes and their meanings are defined in

<filename>&lt;lwrres/netdb.h&gt;</filename>:

<variablelist>

<varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>

<listitem>

<para>

No such host is known.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_ADDRESS</constant></term>

<listitem>

<para>

The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY\_AGAIN</constant></term>

<listitem>

<para>

A temporary and possibly transient error occurred, such as a failure of a server to respond. The request may succeed if retried.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_RECOVERY</constant></term>

<listitem>

<para>

An unexpected failure occurred, and retrying the request is pointless.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<citerefentry>

<refentrytitle>lwrres\_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

translates these error codes to suitable error messages.

</para>

</refsect1>

```
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>RFC2553</refentrytitle>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_gethostent</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getnameinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
</refsect1>
</refentry>
```

Found

in path(s):

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.\\" \$Id: lwres\_inetntop.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\\"

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<!-- \$Id: lwres\_resutil.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_resutil</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>



```

</refmeta>

<refnamediv>
<refname>lwres_string_parse</refname>
<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_string_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>char **c</paramdef>
<paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_addr_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getaddrbyname</function></funcdef>
<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>
</funcsynopsis>

```

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_string\_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer <parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>. When the function returns, the address of the first byte of the encoded string is returned via

<parameter>\*c</parameter> and the length of that string is given by <parameter>\*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.

</para>

<para>

<function>lwres\_addr\_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to <constant>addr-&gt;address</constant> and <constant>addr-&gt;length</constant> indicates the size in bytes of the address that was copied. <constant>b-&gt;current</constant> is advanced to point at the next byte of available data in the buffer following the encoded address.

</para>

<para>

<function>lwres\_getaddrbyname()</function>

and

<function>lwres\_getnamebyaddr()</function>

use the

<type>lwres\_gnbaresponse\_t</type>

structure

defined below:

<programlisting>

```
typedef struct {
    lwres_uint32_t    flags;
    lwres_uint16_t    aliases;
    lwres_uint16_t    naddrs;
    char              *realname;
    char              **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
```

```

    lwres_addrlist_t    addr;
    void                *base;
    size_t              baselen;
} lwres_gabnresponse_t;

```

</programlisting>

The contents of this structure are not manipulated directly but they are controlled through the

<citerefentry>

<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

functions.

</para>

<para>

The lightweight resolver uses

<function>lwres\_getaddrbyname()</function> to perform forward lookups.

Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation.

<parameter>addrtypes</parameter>

is a bitmask indicating which type of

addresses are to be looked up. Current values for this bitmask are

<type>LWRES\_ADDRTYPE\_V4</type> for IPv4 addresses and

<type>LWRES\_ADDRTYPE\_V6</type> for IPv6 addresses. Results of the

lookup are returned in <parameter>\*structp</parameter>.

</para>

<para>

<function>lwres\_getnamebyaddr()</function> performs reverse lookups.

Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by

<parameter>addrtype</parameter>: <type>LWRES\_ADDRTYPE\_V4</type> or

<type>LWRES\_ADDRTYPE\_V6</type>. The address to be looked up is given

by <parameter>addr</parameter> and its length is

<parameter>addrlen</parameter> bytes. The result of the function call

is made available through <parameter>\*structp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

Successful calls to

<function>lwres\_string\_parse()</function>

and

<function>lwres\_addr\_parse()</function>

return

<errorcode>LWRES\_R\_SUCCESS.</errorcode>

Both

functions return

<errorcode>LWRES\_R\_FAILURE</errorcode>

if the buffer is corrupt or

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

if the buffer has less space than expected for the components of the encoded string or address.

</para>

<para>

<function>lwres\_getaddrbyname()</function>

returns

<errorcode>LWRES\_R\_SUCCESS</errorcode>

on success and it returns

<errorcode>LWRES\_R\_NOTFOUND</errorcode>

if the hostname

<parameter>name</parameter>

could not be found.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>

is returned by a successful call to

<function>lwres\_getnamebyaddr()</function>.

</para>

<para>

Both

<function>lwres\_getaddrbyname()</function>

and

<function>lwres\_getnamebyaddr()</function>

return

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

when memory allocation requests fail and

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

if the buffers used for sending queries and receiving replies are too small.

</para>

</refsect1>

<refsect1>

<title>SEE

ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_buffer</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&p>

<citerefentry>

<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

Found in path(s):

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/openssldsa\_link.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst\_parse.c

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/sec/dst/hmac\_link.c

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 \*  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_network.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_makeaddr.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_lnaof.c  
 \* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/inet/inet\_netof.c  
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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getprotoent_r.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getgrent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getpwent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gethostent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getservent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetgrent_r.c
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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/zt.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tsig.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/hs_4/a_1.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/callbacks.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/ipv6.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/gpos_27.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/ncache.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/events.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/dnssec.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/ratelimiter.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/isdn_20.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdataslab.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/compress.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/lfsr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/unspec_103.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/ratelimiter.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rootns.c
```

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/include/isc/log.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/acl.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/journal.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/wks\_11.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/zt.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/rbt.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/isc/netaddr.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/x25\_19.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/nsap\_22.c  
\*  
/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/masterdump.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/acl.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/include/dns/master.h  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/in\_1/aaaa\_28.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/tsig.c  
\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nxt\_30.h  
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\* msg\_eventlib.c - Error messages for evlib  
\*  
\* January 2007, Vikram Visweswaraiah  
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\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h

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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_send.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_init.c
```

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```
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* eventlib definitions specific to binos
*
* January 2007, Vikram Visweswaraiah
*
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/eventlib_defs.h
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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/aix32/include/sys/cdefs.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h

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\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/dns/rbtdb.c

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.\"  
.\" \$Id: lwres\_buffer.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
.\"

Found

in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/lwres/man/lwres\_buffer.3

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Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/irp\_pr.c

\*

/opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/irs/irp\_pw.c

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Found in path(s):

\* /opt/cola/permits/1130449963\_1615189022.84/0/lib-tar/lib/bind/isc/movefile.c

# 1.172 gawk 4.2.1-2.el8

## 1.172.1 Available under license :

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Version 3, 29 June 2007

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```
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## 1.177 p11-kit 0.23.21-4.el8



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## 1.178 iputils 20180629-6.el8

### 1.178.1 Available under license :

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```
/*
*-----
* ip_parser_linkpoints.h - IP related parser linkpoint decls.
*
* April, 2005
*
* Copyright (c) 2005-2006, 2008-2009, 2014 by cisco Systems, Inc.
* All rights reserved.
*
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/include/ip\_parser\_linkpoints.h

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

/\*

\*-----

\* util\_ip.c -- miscellaneous ip specific utility routines

\*

\* Feb 2008, Hiral mehta

\*

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\*-----

\*/

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\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/include/reg/ip\_15\_registry.reg

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/makefile

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/expl\_path/makefile

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/src/src.mk

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/expl\_path/src/src.mk

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

/\*

\*-----

\* ipaddress\_api.h

\*

\* Febuary 2004

\*

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\*-----

\*/

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\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/include/ipaddress\_api.h

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/\*

\*-----

\* ip\_parser\_macros.h - IP\* macros moved out of

\* sys/parser/macros.h

\*  
\* November, 2004  
\*  
\* Copyright (c) 2004, 2009-2010 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*  
\*/

Found in path(s):

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/include/ip\_parser\_macros.h  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* ip\_15\_registry.h -- Registration Points for IP\_15 support  
\*  
\* August 2006, Krishna Kumar Maurya  
\*  
\* Copyright (c) 2006-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* The file ip\_registry.reg has been re-factored into 44 different  
\* registries to address the 2G problem. The detail regarding the  
\* mapping of registries into services is available at  
\* /vob/ios.sys1/deprecated/sys/ip/ip\_registry\_map.txt  
\* For further detail regarding the re-factoring of registries,  
\* please mail in your queries to dolphins@cisco.com  
\*/

Found in path(s):

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/include/ip\_15\_registry.h  
No license file was found, but licenses were detected in source scan.

/\*  
\*-----  
\* ip\_parser\_linkpoints.c - IP related parser linkpoint definitions.  
\*  
\* April, 2005  
\*  
\* Copyright (c) 2005, 2008-2009, 2014 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/src/ip\_parser\_linkpoints.c

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

```
##
## Component "ip":
##
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##

syntax: 1.0.0

# meta-source files found within component 'ip'
group: generic
{
  reg:
    include/reg/ip_15_registry.reg
    include/reg/ip_registry.reg
}

# migrated from file: 'ip/src/src.mk'
group: top
{
  includes: $(IOS_SYSROOT)/ion/include $(COMPONENT_ROOT)/posix/include
  # These diagnostic disables are temporary and must be removed
  # after fixing the problems in the source code
  if: compiler == gcc.c4.7
  {
    cflags : -Wno-error=unused-but-set-variable -Wno-error=enum-compare
  }
  sub: ip_parser
  {
    contains:
      src/ip_parser_linkpoints.c
  }
  sub: ip_registry
  {
    contains:
      src/ip_registry.c
  }
  sub: ip_util
  {
    contains:
      src/ip_util.c
  }
}
# end of group: top
```

##

Found in path(s):

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/content.lst

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/\*

\*-----

\* ip\_util.h

\*

\* February 2005

\*

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\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130449866\_1615188952.97/0/ip-tar/ip/include/ip\_util.h

## 1.179 glib 2.56.4-9.el8

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# 1.180 libsemanage-common 2.9-4.el8

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```
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```

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## 1.181 elfutils 0.182-3.el8

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```
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```



Found in path(s):

- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/parseinfo.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/datastore.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/structdef.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/ActionTable.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/fixup\_parser\_extension.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/LinkTable.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/SimpleELF.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/Makefile
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/extract\_func\_calls.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/codegen.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/StructFormat.py

- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/SimpleCType.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/setup.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/struct\_unpack.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/gdblist.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/bat\_structoffset.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/CmdSelector.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/parser\_bin\_tool.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/SymbolTable.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/extract\_address.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/Traverser.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/graph\_algo.py

- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/actionenum.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/handler.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/Condition.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/SimpleTraverser.py
- \* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/tlutils.py

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/\*

\* lua\_ex\_api.h

\*

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\* lua\_ex\_api.c

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parser\_bin\_tool\_readme.html

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/\*

\* symbol\_type\_info.c

\*

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\*

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\* /opt/cola/permits/1130449857\_1615191950.34/0/elfutils-tar/binary\_tool/symbol\_type\_info.c

## 1.182 systemd 239-43.el8

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```
#
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#
# This file contains all needed files related to nfs server daemon.
#
infra/systemd/nfs-mountd.service      usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service      usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount      usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs  usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd  usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd  usr/sbin/rpc.nfsd

(include nfs-common)
# The following optional kernel modules are put here to allow forwarding
# compatible when NFSV4 support is configured in kernel.
# When nfsv4 is enabled in kernel, it brings in extra dependency for
# nfsd.ko, which is needed for nfsv3 server.
#
so treat extra modules needed by nfsd.ko as optional since it depend on kernel
# configure.
#
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv3/nfs-utils
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(include systemd-common)
```

```

infra/systemd/switchroot/sysinit.target                usr/lib/systemd/system/sysinit.target
infra/systemd/switchroot/systemd-journald.service      usr/lib/systemd/system/systemd-
journald.service
infra/systemd/switchroot/systemd-timedated.service    usr/lib/systemd/system/systemd-
timedated.service
infra/systemd/switchroot/systemd-udev.service         usr/lib/systemd/system/systemd-
udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket
usr/lib/systemd/system/systemd-journald-audit.socket

```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/systemd-swrt
```

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```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/journalctl    usr/bin/journalctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemctl    usr/bin/systemctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-inhibit  usr/bin/systemd-inhibit
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-notify  usr/bin/systemd-notify
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-tmpfiles  usr/bin/systemd-tmpfiles
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/udevadm        usr/bin/udevadm
contrib/yocto/CGE7/journald.conf                        etc/systemd/journald.conf
infra/systemd/system.conf                               etc/systemd/system.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/systemd/user.conf  etc/systemd/user.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/udev/udev.conf    etc/udev/udev.conf
/usr/lib/systemd/systemd                                init
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator
usr/lib/systemd/system-generators/systemd-fstab-generator
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/basic.target
usr/lib/systemd/system/basic.target
/usr/lib/systemd/system/reboot.target                   usr/lib/systemd/system/ctrl-alt-del.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-hugepages.mount
usr/lib/systemd/system/dev-hugepages.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/dev-mqueue.mount
infra/systemd/emergency.service                       usr/lib/systemd/system/emergency.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/emergency.target
usr/lib/systemd/system/emergency.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/final.target
usr/lib/systemd/system/final.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/halt.target
usr/lib/systemd/system/halt.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/kexec.target
usr/lib/systemd/system/kexec.target

```

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/local-fs-pre.target
usr/lib/systemd/system/local-fs-pre.target
infra/systemd/local-fs.target                                usr/lib/systemd/system/local-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network-online.target
usr/lib/systemd/system/network-online.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network.target
    usr/lib/systemd/system/network.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/paths.target
usr/lib/systemd/system/paths.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/poweroff.target
usr/lib/systemd/system/poweroff.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/reboot.target
usr/lib/systemd/system/reboot.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/remote-fs.target
usr/lib/systemd/system/remote-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.service
usr/lib/systemd/system/rescue.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.target
usr/lib/systemd/system/rescue.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/shutdown.target
usr/lib/systemd/system/shutdown.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/slices.target
    usr/lib/systemd/system/slices.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
/usr/lib/systemd/system/systemd-udev-control.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-control.socket
/usr/lib/systemd/system/systemd-udev-kernel.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-kernel.socket
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sys-kernel-config.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sys-kernel-debug.mount
/usr/lib/systemd/system/dev-hugepages.mount
    usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount
/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/sysinit.target.wants/dev-mqueue.mount
/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-config.mount
/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-debug.mount
/usr/lib/systemd/system/systemd-journal-flush.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service
/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service
/usr/lib/systemd/system/systemd-modules-load.service

```

usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service  
/usr/lib/systemd/system/systemd-sysctl.service  
usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service  
/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service  
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service  
/usr/lib/systemd/system/systemd-tmpfiles-setup.service  
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup.service  
/usr/lib/systemd/system/systemd-udev-trigger.service  
usr/lib/systemd/system/sysinit.target.wants/systemd-udev-trigger.service  
/usr/lib/systemd/system/systemd-udev.service  
usr/lib/systemd/system/sysinit.target.wants/systemd-udev.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-halt.service  
usr/lib/systemd/system/systemd-halt.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journal-flush.service  
usr/lib/systemd/system/systemd-journal-flush.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald-dev-log.socket  
usr/lib/systemd/system/systemd-journald-dev-log.socket  
infra/systemd/systemd-journald.service.d/visible.conf usr/lib/systemd/system/systemd-journald.service.d/visible.conf  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-fsck@.service  
usr/lib/systemd/system/systemd-fsck@.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald.socket  
usr/lib/systemd/system/systemd-journald.socket  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-kexec.service  
usr/lib/systemd/system/systemd-kexec.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-modules-load.service  
usr/lib/systemd/system/systemd-modules-load.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-poweroff.service  
usr/lib/systemd/system/systemd-poweroff.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-reboot.service  
usr/lib/systemd/system/systemd-reboot.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-sysctl.service  
usr/lib/systemd/system/systemd-sysctl.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service  
usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup.service  
usr/lib/systemd/system/systemd-tmpfiles-setup.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-settle.service  
usr/lib/systemd/system/systemd-udev-settle.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-trigger.service  
usr/lib/systemd/system/systemd-udev-trigger.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-control.socket  
usr/lib/systemd/system/systemd-udev-control.socket  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-udev-kernel.socket  
usr/lib/systemd/system/systemd-udev-kernel.socket  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/timers.target  
usr/lib/systemd/system/timers.target  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/time-sync.target

```

usr/lib/systemd/system/time-sync.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/umount.target
usr/lib/systemd/system/umount.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd                usr/lib/systemd/systemd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-socket-activate        usr/bin/systemd-socket-
activate
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-bootchart
usr/lib/systemd/systemd-bootchart
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-fsck
usr/lib/systemd/systemd-fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-journald        usr/lib/systemd/systemd-
journald
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-modules-load
usr/lib/systemd/systemd-modules-load
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-shutdown
usr/lib/systemd/systemd-shutdown
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-sysctl          usr/lib/systemd/systemd-
sysctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-timedated
usr/lib/systemd/systemd-timedated
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-udev            usr/lib/systemd/systemd-
udev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/50-udev-default.rules
usr/lib/udev/rules.d/50-udev-default.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/99-systemd.rules
usr/lib/udev/rules.d/99-systemd.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-analyze                usr/bin/systemd-analyze
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/machine.slice
usr/lib/systemd/system/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf                    usr/lib/systemd/system/systemd-
journald.service.d/visible.conf

infra/systemd/sysctl/inotify-user-instances.conf                          etc/sysctl.d/inotify-user-instances.conf

```

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/systemd-common

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#

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(include all-common)

(include systemd-swrt)

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/all-swrt

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```
#
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#files related to nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.statd      usr/sbin/rpc.statd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sm-notify      usr/sbin/sm-notify
infra/systemd/nfs-statd.service          usr/lib/systemd/system/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat        usr/sbin/nfsstat

#files related to nfs-idmapd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.idmapd     usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount      usr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.
# The directory for plugin is fix to usr/lib/libnfsidmap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/${LIB}/libnfsidmap/nsswitch.so  usr/lib/libnfsidmap/nsswitch.so
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/idmapd.conf
      etc/idmapd.conf
infra/systemd/nfs-idmapd.service              usr/lib/systemd/system/nfs-idmapd.service

contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf
```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv4/nfs-common
```

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```
#
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#
# This file contains all needed files related to nfs server daemon.
#
infra/systemd/nfs-mountd.service          usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service         usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount         usr/lib/systemd/system/proc-fs-nfsd.mount
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs  usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd  usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd  usr/sbin/rpc.nfsd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rpcinfo  usr/bin/rpcinfo
```

(include nfs-common)

```
# The following kernel modules are needed when NFSV4 support is configured
```

```
# in kenrel.
```

```
# nfsd.ko depend on auth_rpcgss.ko
```

```
# auth_rpcgss.ko depend on oid_registry.ko
```



```
-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv4/nfs-utils
```

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

```
#
```

```
# Copyright (c) 2018 by Cisco Systems, Inc.
```

```
# All rights reserved.
```

```
# This file is to store extra files needed to support NFSV4 client.
```

```
#
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs usr/sbin/mount.nfs
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs usr/sbin/umount.nfs
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs4 usr/sbin/mount.nfs4
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs4 usr/sbin/umount.nfs4
```

```
contrib/initscripts/binos/etc/${NFS_VER}/nfsmount.conf etc/nfsmount.conf
```

```
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
```

```
usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
```

```
(include nfs-common)
```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv4/nfs-utils-client
```

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

```
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```

```
# All rights reserved.
```

```
(include systemd-common)
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-preset/90-systemd.preset
```

```
usr/lib/systemd/system-preset/90-systemd.preset
```

```
/usr/lib/systemd/system/tmp.mount
```

```
usr/lib/systemd/system/local-
```

```
fs.target.requires/tmp.mount
```

```
infra/systemd/sysinit.target
```

```
usr/lib/systemd/system/sysinit.target
```

```
infra/systemd/cpld-symlink.service
```

```
usr/lib/systemd/system/cpld-symlink.service
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.service
```

```
usr/lib/systemd/system/systemd-journald.service
```

```
infra/systemd/systemd-journald.service.d/visible.conf
```

```
usr/lib/systemd/system/systemd-
```

```
journald.service.d/visible.conf
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-timedated.service
```

```
usr/lib/systemd/system/systemd-timedated.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev.service
usr/lib/systemd/system/systemd-udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/tmp.mount
usr/lib/systemd/system/tmp.mount
```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/systemd
No license file was found, but licenses were detected in source scan.
```

```
#
# May 2018, Victor Kamensky
#
# Copyright (c) 2018 by Cisco Systems, Inc.
# All rights reserved
#
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd      usr/sbin/auditd
```

```
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
contrib/initscripts/binos/etc/audit/auditd.conf      etc/audit/auditd.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/default/auditd
etc/default/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/libaudit.conf    etc/libaudit.conf
```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/audit
No license file was found, but licenses were detected in source scan.
```

```
# Copyright (c) 2018 by Cisco Systems, Inc.
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```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcalc      usr/bin/ipcalc
```

Found in path(s):

```
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/ipcalc
No license file was found, but licenses were detected in source scan.
```

```
# Original Creation Date Unknown
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# All rights reserved.
```

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/staprun           usr/bin/staprun  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/libexec/systemtap/stapio   usr/libexec/systemtap/stapio

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/systemtap

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.statd           usr/sbin/rpc.statd  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sm-notify           usr/sbin/sm-notify  
infra/systemd/nfs-statd.service           usr/lib/systemd/system/nfs-statd.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/nfsstat           usr/sbin/nfsstat

contrib/initscripts/binos/etc/\${NFS\_VER}/nfs-utils.conf   etc/nfs-utils.conf

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/nfsv3/nfs-common

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/dmesg   usr/bin/dmesg  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/kill   usr/bin/kill  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/mount   usr/bin/mount  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/umount   usr/bin/umount  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/agetty   usr/sbin/agetty  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/blockdev   usr/sbin/blockdev  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/cfdisk   usr/sbin/cfdisk  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/ctrlaltdel   usr/sbin/ctrlaltdel  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/fdisk   usr/sbin/fdisk  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/fsck   usr/sbin/fsck  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/hwclock   usr/sbin/hwclock  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/mkswap   usr/sbin/mkswap  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/pivot\_root  
    usr/sbin/pivot\_root  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sfdisk   usr/sbin/sfdisk  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/swapoff   usr/sbin/swapoff  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/swapon   usr/sbin/swapon  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/arch   usr/bin/arch  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/cal   usr/bin/cal  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/chrt   usr/bin/chrt  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/col   usr/bin/col  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/colcrt   usr/bin/colcrt  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/colrm   usr/bin/colrm

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/column    usr/bin/column
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/flock    usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/getopt    usr/bin/getopt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hexdump   usr/bin/hexdump
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ionice    usr/bin/ionice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm
    usr/bin/ipcrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcs      usr/bin/ipcs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/isosize   usr/bin/isosize
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/last      usr/bin/last
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/logger    usr/bin/logger
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/look      usr/bin/look
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/lshblk    usr/bin/lshblk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mesg      usr/bin/mesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/namei     usr/bin/namei
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/newgrp    usr/bin/newgrp
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/nsenter   usr/bin/nsenter
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rename    usr/bin/rename
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/renice    usr/bin/renice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rev       usr/bin/rev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/script    usr/bin/script
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setuid
    usr/bin/setuid
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setterm   usr/bin/setterm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/taskset   usr/bin/taskset
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ul        usr/bin/ul
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/wall      usr/bin/wall
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/whereis   usr/bin/whereis
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/write     usr/bin/write
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdformat  usr/sbin/fdformat
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkfs     usr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/raw      usr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctl  usr/sbin/zramctl

```

Found in path(s):

\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/util-linux

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#

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(include audit)

(include bash)

(include binutils)

(include bridge-utils)

(include busybox)

(include bzip2)

(include coreutils)  
(include cpio)  
(include dbus)  
(include diffutils)  
(include dosfstools)  
(include e2fsprogs)  
(include ethtool)  
(include file)  
(include filesystem)  
(include findutils)  
(include gawk)  
(include glibc)  
(include grep)  
(include gzip)  
(include initscripts)  
(include ipcalc)  
(include iproute2)  
(include iptables)  
(include iputils)  
(include kexec-tools)  
(include kmod)  
(include less)  
(include libcap)  
(include lsof)  
(include modules)  
(include ncurses)  
(include netbase)  
(include netcat)  
(include netkit-telnet)  
(include net-tools)  
(include \${NFS\_VER}/nfs-utils-client)  
(include pciutils)  
(include procps)  
(include psmisc)  
(include rpcbind)  
(include sed)  
(include shadow)  
(include strace)  
(include sysklogd)  
(include systemtap)  
(include sysvinit)  
(include  
tar)  
(include tcpdump)  
(include tftp-hpa)  
(include traceroute)  
(include util-linux)

Found in path(s):  
\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/all-common  
No license file was found, but licenses were detected in source scan.

#  
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(include all-common)

(include systemd)

Found in path(s):  
\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/all  
No license file was found, but licenses were detected in source scan.

#  
# November 2018, Cisco Systems, Inc.  
#  
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#  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ping      usr/bin/ping  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/tracepath   usr/bin/tracepath  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/in.tftpd-hpa   usr/bin/tftpd

Found in path(s):  
\* /opt/cola/permits/1130450074\_1615190715.28/0/iptables-tar/linux-system/iputils

# 1.184 curl 7.61.1-17.el8

## 1.184.1 Available under license :

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## 1.185 zlib 1.2.11-17.el8

### 1.185.1 Available under license :

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## 1.186 libsolv 0.7.16-1.el8

### 1.186.1 Available under license :

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## 1.187 dnf 4.4.2-2.el8

### 1.187.1 Available under license :

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

```
/*
*-----
* erp_io.c - ERP IO common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2016-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io.c
```

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

```
/*
*-----
* erp_ctrl_ha.c - ERP Controller HA common code
*
```



```
* Sep 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl_ha.c
No license file was found, but licenses were detected in source scan.
```

```
#
# erp_ring.zn - Oxide rules file
#
# June 2018, Gangadhara Valluri
#
# Copyright (c) 2018 by cisco Systems, Inc.
# All rights reserved.
#
```

```
name: erp_ring;
type: erp_ring_t;
type: erp_instance_t;
type: erp_port_id_t;
type: erp_profile_t;
type: erp_instance_stats_t;
type: erp_port_info_t;
type: erp_l2req_state_t;
type: erp_raps_encap_t;
type: xos_bitlist_handle;
type: xos_list_t;
type: xos_list_element_t;
```

Found in path(s):

```
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ring.zn
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* erp_ctrl_sm.c
* G.8032 ERP Controller state machine
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2020 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_ctrl\_sm.c

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

/\*

\*-----

\* erp\_io.sm - Ethernet Ring Protection Controller state machine

\*

\* June 2010, Viet Nguyen

\*

\* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

XOS\_SM\_EVENTLIST\_BEGIN

  XOS\_SM\_EVENT(init)

  XOS\_SM\_EVENT(clear)

  XOS\_SM\_EVENT(fs)

  XOS\_SM\_EVENT(aps\_fs)

  XOS\_SM\_EVENT(local\_sf)

  XOS\_SM\_EVENT(local\_clear\_sf)

  XOS\_SM\_EVENT(aps\_sf)

  XOS\_SM\_EVENT(aps\_ms)

  XOS\_SM\_EVENT(ms)

  XOS\_SM\_EVENT(wtr\_expires)

  XOS\_SM\_EVENT(wtb\_expires)

  XOS\_SM\_EVENT(aps\_nr\_rb)

  XOS\_SM\_EVENT(aps\_nr)

  XOS\_SM\_EVENT(ack)

XOS\_SM\_EVENTLIST\_END

/\*

\* State machine states

\* - Init,

\* A\_Idle,

\* B\_Protection,

\* C\_ManualSwitch,

\* D\_ForcedSwitch,

\* E\_Pending

\*/

XOS\_SM\_STATE\_BEGIN(init)

  XOS\_SM\_TRANSITION(init, erp\_io\_sm\_action\_init,

  init) /\* wait ack \*/

  XOS\_SM\_TRANSITION(ack, erp\_io\_sm\_action\_init\_ack, E\_Pending)

XOS\_SM\_STATE\_END

```

XOS_SM_STATE_BEGIN(A_Idle)
XOS_SM_TRANSITION(clear, erp_io_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, A_Idle) /* wait ack
*/
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

```

```

XOS_SM_STATE_BEGIN(B_Protection)
XOS_SM_TRANSITION(clear, erp_io_sm_action_null, B_Protection)
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, B_Protection) /* wait
ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

```

```

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms,
C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */

```

```

XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_null, D_ForcedSwitch)
/* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_wtb_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_E_Pending_ack, E_Pending)
XOS_SM_STATE_END

```

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_io.sm

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

/\*

\*-----

\* erp\_pdb.h

\* G.8032 Profile Database

\*  
\* July 2010, Mark Bilstad  
\*  
\* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_pdb.c

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/\*  
\*-----  
\* erp\_common.c - ERP common code  
\*  
\* July 2010, Viet Nguyen  
\*  
\* Copyright (c) 2010-2011 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_common.c

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/\*  
\*-----  
\* erp\_debug.c - G.8032 Ethernet Ring Protection debug routines  
\*  
\* June 2010, Viet Nguyen  
\*  
\* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_debug.c

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

/\*  
\*-----  
\* erp\_io\_pak.c - ERP IO packet handling source file  
\*  
\* August 2010, Ramachandran Ramanujalu  
\*  
\*/

\* Copyright (c) 2010-2014 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_io\_pak.c

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/\*

\*-----

\* erp\_ctrl.sm - Ethernet Ring Protection Controller state machine

\*

\* June 2010, Viet Nguyen

\*

\* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

XOS\_SM\_EVENTLIST\_BEGIN

XOS\_SM\_EVENT(init)

XOS\_SM\_EVENT(clear)

XOS\_SM\_EVENT(fs)

XOS\_SM\_EVENT(aps\_fs)

XOS\_SM\_EVENT(local\_sf)

XOS\_SM\_EVENT(local\_clear\_sf)

XOS\_SM\_EVENT(aps\_sf)

XOS\_SM\_EVENT(aps\_ms)

XOS\_SM\_EVENT(ms)

XOS\_SM\_EVENT(wtr\_expires)

XOS\_SM\_EVENT(wtb\_expires)

XOS\_SM\_EVENT(aps\_nr\_rb)

XOS\_SM\_EVENT(aps\_nr)

XOS\_SM\_EVENT(ack)

XOS\_SM\_EVENTLIST\_END

/\*

\* State machine states

\* - Init,

\* A\_Idle,

\* B\_Protection,

\* C\_ManualSwitch,

\* D\_ForcedSwitch,

\* E\_Pending

\*/

XOS\_SM\_STATE\_BEGIN(init)

```
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init,
init) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(A_Idle)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,
A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_A_Idle_ack, A_Idle)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(B_Protection)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_local_clear_sf,
B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null,
B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs,
C_ManualSwitch) /* wait ack */
```

```

XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf,
erp_ctrl_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_C_ManualSwitch_ack,
    C_ManualSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, D_ForcedSwitch)
/* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_D_ForcedSwitch_ack,
    D_ForcedSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires,
    E_Pending) /* wait ack */

```



```
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,  
    E_Pending) /* wait ack */  
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, E_Pending) /* wait ack */  
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_E_Pending_ack, E_Pending)  
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */  
XOS_SM_STATE_END
```

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_ctrl.sm

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

```
/*  
*-----  
* erp_ctrl.c - ERP Controller common code  
*  
* July 2010, Viet Nguyen  
*  
* Copyright (c) 2010-2014, 2016-2019, 2021 by cisco Systems, Inc.  
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*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_ctrl.c

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```
/*  
*-----  
* erp_ridb.c  
* G.8032 Ring/Instance Database  
*  
* July 2010, Mark Bilstad  
*  
* Copyright (c) 2010-2014, 2016, 2019 by Cisco Systems, Inc.  
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*-----  
*/
```

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```
/*  
*-----  
* erp_io_ha.c - ERP IO HA common code  
*  
* Sep 2010, Ramachandran Ramanujalu  
*  
*/
```

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\*-----

\*/

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/\*

\*-----

\* erp\_cfg\_parser.c - ERP config parser code

\*

\* August 2011

\*

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\*-----

\*/

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/\*

\*-----

\* erp\_io\_sm.c

\* G.8032 ERP IO state machine

\*

\* July 2010, Viet Nguyen

\*

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\*-----

\*/

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\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_io\_sm.c

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

/\*

\*-----

\* erp\_pd\_caps\_stubs.c - ERP Controller stub file

\*

\* July 2010, Ramachandran Ramanujalu

\*

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\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450014\_1615191955.57/0/dnf-tar/src/erp\_pd\_caps\_stubs.c

# 1.188 util-linux 2.32.1-26.el8

## 1.188.1 Available under license :

| NR | START | END   | SECTORS | SIZE | NAME | UUID        |
|----|-------|-------|---------|------|------|-------------|
| 1  | 32    | 7679  | 7648    | 3.7M |      | 8f8378c0-01 |
| 2  | 7680  | 16383 | 8704    | 4.3M |      | 8f8378c0-02 |
| 5  | 7936  | 12799 | 4864    | 2.4M |      |             |
| 6  | 12544 | 16127 | 3584    | 1.8M |      |             |

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```

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## 1.189 libpwquality 1.4.4-1.el8

### 1.189.1 Available under license :

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/\*

\* pw\_const.tph

\*

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```
@DIRECTIVES{
    auto_import_stg = false;
    skip_auto_tdl_include = true;
}@
```

```
@IMPORT_STG{
    import "constant_gen.stg";
}@
```

```
@TDL{
    import "pw_const.tdl"
}@
```

```
@CODE{
```

```
#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__
```

```
    $constant_generate()$
```

```
#endif /* __TDLC_GEN_PW_CONST_H__ */
```

```
@
```

Found in path(s):

\* /opt/cola/permits/1130450000\_1615189192.83/0/pw-tar/pw/include/pw\_const.tph

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/\*

\* pw.c

\*

\* AAA password routines, adopted from IOX

\*

\* January 2005, Naiming Shen

\* July 2005, Craig MacFarlane

\*

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\*-----

\* pw.c -- password encryption/decryption routines

\*

\* May 08 2000, Mark Eklund

\*

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\*-----  
\*/

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/\*

\* pw.h

\*

\* Password routines, adopted from IOX

\*

\* May 2000 Mark Eklund

\* July 2005, Craig MacFarlane

\*

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\*/

/\*

\* edt: \* pw\_type\_t

\* Possible formats of saving the password in SysDB.

\*

\* item: PW\_TYPE\_CLEAR

\* The password in the clear, visible for anybody.

\*

\* item: PW\_TYPE\_1WAY

\* The password encrypted to an MD5 digest. This is not reversible.

\*

\* item: PW\_TYPE\_1WAY\_2

\* The password encrypted to an sha256 digest. This is not reversible.

\*

\* item: PW\_TYPE\_2WAY

\* The Cisco type 7 password encryption. This is reversible

\* by both Cisco products and several public domain programs.

\*/

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\* /opt/cola/permits/1130450000\_1615189192.83/0/pw-tar/pw/include/pw.h

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/\*

\* pw\_defs.h

\*

\* Password defines.

\*

\* July 2005, Craig MacFarlane

\*

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\* /opt/cola/permits/1130450000\_1615189192.83/0/pw-tar/pw/Makefile.bin

## 1.190 shadow-utils 4.6-12.el8

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 \*  
 \* File: port.c  
 \* Purpose: Manages untagged priority setting for port  
 \*/

Found in path(s):

\* /opt/cola/permits/1130449954\_1615183583.0/0/shadow-tar/shadow/port.c

## 1.191 python 3.6.8-34.el8

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- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policy/FirewallService.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policy/nat.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/pfr/pfr\_test.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/pfr/pfrconfig.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/pfr/pfrproper.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/sample.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/advancedrouting/config.py
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- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/server/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/protocol/TProtocol.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/server/TProcessPoolServer.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/protocol/TBase.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/Thrift.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/transport/TTwisted.py
- \*
- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/transport/TTransport.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/server/TServer.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/protocol/TBinaryProtocol.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/protocol/TCompactProtocol.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/transport/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/transport/TSSLSocket.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/TCons.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/server/TNonblockingServer.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/transport/THttpClient.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/transport/TSocket.py
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- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/transport/TZlibTransport.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/server/THttpServer.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/thrift/protocol/\_\_init\_\_.py

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- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policyservice/caps.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/dhcp/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/Version.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/dns.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/aaa/OnepAAAAttributeType.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceAddressChangeEvent.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceFilter.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policy/L3Acl.py
- \*
- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceCreateDeleteListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/event/EventManager.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatus.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/tools/release\_Acl.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/tunnels/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/policyservice/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatisticsListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/ConnectionEvent.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/event/KeepaliveMonitor.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/FRU.py
- \*
- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/exception/ConfigFailedException.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/policy/utest\_l2\_acl.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/container/csevent.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/aaa/AddressAttribute.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/AppListener.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/LicensingService.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/applmgmt/\_\_init\_\_.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/location/location.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/crypto/test\_ike.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceAddressChangeFilter.py
- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/crypto/\_\_init\_\_.py
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- /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/policy/utest\_l3\_acl.py
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- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/tunnels/\_\_init\_\_.py
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- \* /opt/cola/permits/1130449986\_1615182707.44/0/python-

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tar/python/onep/core/exception/OnepIllegalArgumentException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/policy/__init__.py
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/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/Period.py
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/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/EventObject.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/ElementProperty.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/logger.py
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tar/python/onep/interfaces/InterfaceCreateDeleteEvent.py
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 /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/policy/\_\_init\_\_.py  
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/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/NetworkInterface.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/dhcp/dhcp_Test.py
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tar/python/onep/core/exception/OneInvalidSettingsException.py
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tar/python/onep/core/exception/OneRemoteProcedureException.py
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/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/mediatrace/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/EventDispatcher.py
No license file was found, but licenses were detected in source scan.
```

<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

Found in path(s):

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/lib/ant/pyanttasks-1-3-3-jar/META-INF/maven/org.pyant.tasks/pyAntTasks/pom.xml

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

# \* Copyright (c) 2011-2014 by cisco Systems, Inc. All rights reserved.

Found in path(s):

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/OIRFilter.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/OIREvent.py

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

epilog = 'Copyright(c) 2014 Cisco Systems, Inc. All Rights Reserved')

Found in path(s):

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/basetest.py

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

```
/*-----  
* README  
*  
* Cisco ONE-P Python SDK  
*  
* Copyright (c) 2011-2014 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Introduction:

-----

The APIs contained in these modules allow the developer to design controller applications that interface to compatible Cisco network elements. These applications will be able to configure the element and retrieve statistics.

WARNING:

It is suggested that the developer be very knowledgeable of the network element configuration before applying. You can bring down a production network with the wrong setup!

onePK Python API Reference:

-----

The onePK Python API Reference is provided in HTML format and can be found in the docs directory. Open the index.html with a web browser.



## Installing Modules

-----

### Must

have Python version 2.7.

From root of uncompressed directory type:

```
python setup.py install
```

This will install the SDK modules in the standard directory.

If you wish to locate the modules into a custom directory:

```
python setup.py install --prefix="<your custom directory>"
```

Alternatively, pip can be used to install the SDK.

```
pip install <sdk_tar>
```

Pip can also be used to uninstall the sdk

```
pip uninstall onep-python-sdk
```

This will install the SDK modules in :

```
<your custom directory>/lib/python2.7/site-packages/onep
```

Be sure that your custom directory is included in the PYTHONPATH.

## Creating Application

-----

Must have a Cisco network device capable of communicating with ONE-P APIs. Network Element must also have onep configured with the socket transport and have the correct onep services activated. A network interface must be configured with a valid IP address and pingable.

First step to communicate with network element is to connect. See sample.py

for a very basic example. You should be able to run:

```
./sample.py
```

Usage:

```
sample.py -a <element address or FQDN> [-t <transport_type>] \  
[-C <client cert file> -K <client private key file> \
```

-R <root certificates file>]

-a <ip\_addr or FQDN> Network element's IP Address or Fully Qualified Domain Name

-t <tls|tipc> Transport type. Default is TLS connection

-C <clientcert.pem> Client certificate file required TLS connection  
(default location ./clientcert.pem)

-K <clientkey.pem> Client private key file required for TLS connection  
(default location ./clientkey.pem)

-R <nerootca.pem> Root certificate file required for TLS connection  
(default location ./nerootca.pem)

The application will prompt the user to enter username and password that are configured on the network element you are connecting to.

For more information on how to use TLS connection please refer to the

Getting Started Guide.

Happy Scripting!

Found in path(s):

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/README

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Found in path(s):

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/routing/RouterTest.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationExecCliListener.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/mediatrace/mtrace.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/dhcp/dhcp.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationConfigCliListener.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/routing/PSSession.py

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\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/core/tlspinningtest.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/core/enumtest.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/core/util/tlspinning.py

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\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/AppRouteTable.py

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Found in path(s):

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/CLIFilter.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/OIRListener.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/element/ConnectionProperty.py

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Found in path(s):

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RoutingServiceStatusListener.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-

tar/python/onep/routing/UpdateRouteResponseListener.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/topology/TopologyListener.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RouteRange.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RouteOperation.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RIBFilter.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRouteOperation.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/RIBRouteStateListener.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/ARTRouteStateListener.py

\*

/opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/NextHop.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/ReplayRouteEventListener.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRouteRange.py

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\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/StatisticsListeners\_Test.py

\* /opt/cola/permits/1130449986\_1615182707.44/0/python-tar/python/test/interfaces/AddressChangeEvent\_Test.py

```

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/applmgmt/CliExtension_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/NetworkInterface_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceMtuEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationCli.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceCreateDeleteEvent_Test.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceStateEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceStatisticsEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceStatisticsFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceBandwidthEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceVlanChangeEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceMTUEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationCliData.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceMtuFilter.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceCreateDeleteFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceAddressChangeFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceVrfChangeEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceBandwidthEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceBandwidthFilter.py
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Found in path(s):

```

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Node.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIB.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Scope.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingServiceStatusEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/UpdateRouteResponse.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Edge.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastNextHop.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyClass.py
*

```

```
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRoute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingClass.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRIBFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/IdlConverter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/NodeConnector.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIBRouteStateEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Route.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Graph.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ReplayRouteEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ARTRouteStateEvent.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastScope.py
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```

```
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```

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/DiscoveryEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/DiscoveryFilter.py
```

## 1.192 gzip 1.9-11.el8

### 1.192.1 Available under license :

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# 1.195 iproute 5.9.0-1.el8

## 1.195.1 Available under license :

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```
/*
*-----
* msg_iproute.c - Message file for iproute facility
*
* July 17, 1990, Kevin Paul Herbert
*
* Copyright (c) 1990-2013, 2015-2017, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/msg\_iproute.rc  
No license file was found, but licenses were detected in source scan.

```
/*-----
* router_af_actions_registry.c
*
* Router address family actions registry.
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_actions\_registry.c  
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```
/* $id: iprouting_actions.c,v 3.2.60.2 1996/08/23 22:02:29 jserpa Exp $
* $Source: /release/112/cvs/Xsys/iprouting/iprouting_actions.c,v $
*-----
* IP routing specific parsing functions.
*
* August 1994, Bruce Cole
*
* Copyright (c) 1994-2010, 2012, 2015, 2017-2018 by cisco Systems, Inc.
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*-----
```

```

* $Log: iprouting_actions.c,v $
* Revision 3.2.60.2 1996/08/23 22:02:29 jserpa
* CSCdi67021: router ospf <as> gets nv-ramed in reverse order of
* configuration
* Branch: California_branch
*
* Revision 3.2.60.1 1996/04/15 21:18:11 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.2 1995/11/17 17:34:38 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09
12:08:28 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:33 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_actions.c
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* iprouting_registry.c
*
* September 2001, Fan Kong
*
* Copyright (c) 2001, 2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_registry.c
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: iprouting_setup.c,v 3.4.4.1 1996/06/28 01:21:03 snyder Exp $
* $Source: /release/112/cvs/Xsys/iprouting/iprouting_setup.c,v $
* -----
* IP Routing setup commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2002, 2007-2008, 2010 by cisco Systems, Inc.
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*
* -----
* $Log: iprouting_setup.c,v $
* Revision 3.4.4.1 1996/06/28 01:21:03 snyder
* CSCdi61601: fix some char * that should have been char [] in iprouting
* Branch: California_branch
*
*     You get space back for the pointer
*     You get space back for each reference
*     You get bytes out of data space
*
* Revision 3.4 1996/03/09 22:56:04 widmer
* CSCdi47890: HTTP server doesnt work
* Add HTTP server
*
* Revision 3.3 1995/11/28 03:58:38 widmer
*
* CSCdi44175: Add setup_printf to replace sprintf in setup code
*
* Revision 3.2 1995/11/17 17:34:53 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:42 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:55 hampton
* Bump version numbers from 1.x to 2.x.
*
* -----
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_setup.c
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
* -----

```

```
* cfg_route_default.h
*
* September 2016, Yingzhen Qu
*
* Copyright (c) 2016 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_route_default.h
```

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

```
/* $Id: cfg_router_timers.h,v 3.2.60.1 1996/04/15 21:17:46 bcole Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_timers.h,v $
*-----
* C F G _ R O U T E R _ T I M E R S . H
*
* Copyright (c) 1992-1999, 2002, 2004-2011, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_timers.h,v $
* Revision 3.2.60.1 1996/04/15 21:17:46 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.2 1995/11/17 17:32:28 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:06:09 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:04 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:13:13 hampton
* Bump version numbers from 1.x to 2.x.
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_timers.h

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

/\* \$Id\$

\* \$Source\$

\*-----

\* cfg\_routemap\_match\_ip.h -- IP specific route-map clauses

\*

\* March 1995 Tony Li

\*

\* Copyright (c) 1995-1998, 2000-2002, 2004-2005, 2007-2010, 2014 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_routemap\_match\_ip.h

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

/\* \$Id\$

\* \$Source\$

\*-----

\* cfg\_router\_input-queue.h

\*

\* September 1997, Dawn Li

\*

\* Copyright (c) 1997-2002, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_input-queue.h

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

/\*

\*-----

\* cfg\_router\_topology\_mode.h - router topology configuration sub mode

\* commands.

\*

\* Sept 2004, Mercia Zheng

\*  
\* Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_topology\_mode.h  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* routemap\_api.h -- Dynamic routemap API definitions.  
\*  
\* May 2003, Tanya Shastri  
\*  
\* Copyright (c) 2003, 2005-2009, 2011, 2013, 2015, 2018-2019 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routemap\_api.h  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* msg\_routemap.c -- Message system definitions for Route-map  
\*  
\* Copyright (c) 2003, 2007-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/msg\_routemap.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$  
\* \$Source\$  
\*-----  
\* iprouting\_init\_ionized.c - ION specific IP Routing Protocol support.  
\*  
\* September 2001, Chandra Appanna  
\*  
\* Copyright (c) 2001-2012 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log\$

```
*-----  
* $Endlog$  
*/
```

Found in path(s):

`/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ionized.c`

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

```
/* $Id$  
* $Source$  
*-----  
* IP routing clear commands  
*  
* May 1993, Robert Widmer  
*  
* Copyright (c) 1993-1999, 2001-2002, 2004-2010 by cisco Systems, Inc.  
* All rights reserved.  
*  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

`/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_clear_ip_routing.h`

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

```
/* $Id$  
* $Source$  
*-----  
* iprouting_debug.c -- Debugging routines for IP routing  
*  
* May 1993, John Bashinski  
*  
* Copyright (c) 1993-2010, 2019 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

`/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_debug.c`

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

```
/*
```



```
*
*-----
* Generic route tag list support.
*
* June 2011, Karthik Subramaniam
*
* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routetag_list.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* C F G _ R O U T E R _ B F D . H
*
* Copyright (c) 2004-2008, 2010-2011, 2015 by cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_bfd.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* route_map_ion.h - Route map support data structures specific to ION.
*
* January 2002, Siva Yaragalla
*
* Copyright (c) 2002-2009, 2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/route_map_ion.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* network_constants.h -- General Networking Constants
*
*/
```

\* June 2002, interest-idb  
\*  
\* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*  
\*-----  
\*/

Found in path(s):

\*/opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/network\_constants.h  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* route3\_blob.c  
\*  
\* IOS and blob specific route3.c parser functions.  
\*  
\* March 2002, Victor Kamensky  
\*  
\* Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\*/opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route3\_blob.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router.h,v 3.2.60.2 1996/08/12 16:03:38 widmer Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router.h,v \$  
\*-----  
\* C F G \_ R O U T E R . H  
\*  
\* Enter router subcommand mode  
\*  
\* Copyright (c) 1992-2002, 2005, 2007-2009, 2015, 2017-2018 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log: cfg\_router.h,v \$  
\* Revision 3.2.60.2 1996/08/12 16:03:38 widmer  
\* CSCdi65725: Create Eolns macro that defaults csb->which to 0  
\* Branch: California\_branch  
\* Add Eolns and Nvgenns macro that default csb->which to 0  
\* Remove hidden keyword help strings  
\*  
\* Revision 3.2.60.1 1996/04/15 21:17:43 bcole  
\* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature  
\* commit

```

* Branch: California_branch
*
* Revision 3.2 1995/11/17 17:31:56 hampton
* Remove old
  entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:20 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:46 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:17 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router.h
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* routemap_debug_flags.h -- Routemap debugging support
*
* July 1998, Wilber Su
*
* Copyright (c) 1998, 2004, 2007-2008, 2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_debug_flags.h
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* IOS prefix list support.
*
* March 2005, Sarath Chandran
*
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----

```

\*  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_ios.c  
No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* cfg\_router\_auto\_summary.h

\*

\* October 1993

\*

\* Copyright (c) 1993-1996, 1999-2009 by cisco Systems, Inc.

\* All rights reserved.

\*

\* Supports the router subcommand "auto-summary". Configures auto aggregation  
\* of routing information to the network number level.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-  
tar/iprouting\_cmn/internal\_inc/cfg\_router\_auto\_summary.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* router\_topology\_chain.c - Parser chains of router topology sub mode

\* for multi-topology routing support

\* Sept 2004, Mercia Zheng

\*

\* Copyright (c) 2004-2010, 2019 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/router\_topology\_chain.c  
No license file was found, but licenses were detected in source scan.

/\*-----

\* routing\_context.c

\*

\* This file has global definitions for routing context support  
\* common to blob and iprouting proceses.  
\*  
\* March 2009, Derek Yeung  
\*  
\* Copyright (c) 2009 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routing\_context.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_routemap\_set\_policy.h,v 3.3.52.1 1996/05/21 09:53:12 thille Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_routemap\_set\_policy.h,v \$  
\*-----  
\* cfg\_routemap\_set\_policy.h -- Policy specific route map clauses  
\*  
\* Mar 1995 Tony Li  
\*  
\* Copyright (c) 1995-1996, 2000, 2002, 2004, 2007-2009 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log: cfg\_routemap\_set\_policy.h,v \$  
\* Revision 3.3.52.1 1996/05/21 09:53:12 thille  
\* CSCdi51599: multiple /interface/ literals bloat code.  
\* Branch: California\_branch  
\* Save another 392 bytes by doing away with duplicate literals.  
\*  
\* Revision 3.3 1995/11/28 19:50:39 widmer  
\* CSCdi44251: Replace Ifelse(csb->in\_help)/Eval with Func  
\*  
\* Revision 3.2 1995/11/17 17:31:55 hampton  
\* Remove old entries from the RCS header logs.  
\*  
\* Revision 3.1 1995/11/09 12:05:18 shaker  
\* Bump version numbers from 2.x to 3.x.  
\*  
\* Revision 2.3 1995/06/21 18:16:03 widmer  
\* CSCdi36227: Fix parse chain alternates  
\*  
\* Revision 2.2 1995/06/15 15:18:47 widmer  
\* CSCdi35889: parser transition structures should be static  
\*  
\* Revision 2.1 1995/06/07 21:05:42 hampton  
\* Bump version numbers from 1.x to 2.x.  
\*  
\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-

tar/iprouting\_cmn/include/cfg\_routemap\_set\_policy.h

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

/\*

\*-----

\* route\_map\_registry.h -- Registration Points for Route Maps support in ION

\*

\* July 2001, Siva Yaragalla

\*

\* Copyright (c) 2001, 2003, 2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/route\_map\_registry.h

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

/\*

\*-----

\* route\_map\_nbcmn.c -- Route map support non-Blob common routines

\*

\* October 2001, Siva Yaragalla

\*

\* Copyright (c) 2001-2013, 2018, 2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_nbcmn.c

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

/\*-----

\* routing\_context.h - Routing Context library API

\*

\* March 2009, Derek Yeung

\*

\* Copyright (c) 2009 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routing\_context.h

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

/\*

\*-----

\* routemap\_track\_ios.c -- Route map support for tracking

\*                   Functions shared by rp & vip.

\*

\* March 2003 Shyan Wignarajah

\*

\* Copyright (c) 2003-2010, 2013-2014, 2016 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_track\_ios.c

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

/\*

\*-----

\* IP routing table flap statistics collection facility.

\*

\* Nov 1996, Ravi Chandra

\*

\* Copyright (c) 1995-1998, 2001-2005, 2007-2010 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_stats.c

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

/\*

\*-----

\* route\_capability.h

\*

\* August 2003, Peter Psenak

\*

\* Copyright (c) 2003-2004, 2007-2009, 2011, 2015 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/route\_capability.h  
No license file was found, but licenses were detected in source scan.

```
/*-----  
* route_map_registry.c  
*  
* July 2001, Siva Yaragalla  
*  
* Copyright (c) 2001, 2003, 2007-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_registry.c  
No license file was found, but licenses were detected in source scan.

```
/* $Id$  
* $Source$  
*-----  
* cfg_routemap_set_ip.h -- IP specific route-map clauses  
*  
* Mar 1995 Tony Li  
*  
* Copyright (c) 1995-1998, 2000-2004, 2006-2013, 2016, 2019 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_routemap\_set\_ip.h  
No license file was found, but licenses were detected in source scan.

```
/*  
*-----  
* routemap_internal.h  
*  
* Route map support data structures.  
* To be included only by routemap code.  
*  
* Copyright (c) 1986-2003, 2005-2009, 2011, 2013-2015, 2018 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```



Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routemap\_internal.h

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

/\* \$Id: cfg\_ip\_prefixlist.h,v 3.1.2.2 1998/02/23 19:43:42 enkechen Exp \$

\* \$Source: /release/111/cvs/Xsys/ip/cfg\_ip\_prefixlist.h,v \$

\*-----

\* cfg\_ip\_prefix.h -- IP Prefix List Parser Commands

\*

\* June 1997, Enke Chen

\*

\* Copyright (c) 1997-2001, 2004, 2007-2008, 2019 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_ip\_prefixlist.h,v \$

\* Revision 3.1.2.2 1998/02/23 19:43:42 enkechen

\* CSCdj75270: Prefix-list: optimization for downloading large lists

\* Branch: FIB\_branch

\*

\* Revision 3.1.2.1 1997/12/17 21:36:57 enkechen

\* CSCdj61356: Prefix-list - facility for efficient route filtering

\* Branch: FIB\_branch

\*

\* Revision 3.1 1997/12/17 01:46:33 enkechen

\* Start with the new file.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_ip\_prefixlist.h

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

/\* \$Id\$

\* \$Source\$

\*-----

\* cfg\_router\_flash-threshold.h

\*

\* January 1998, 2001 Dawn Li

\*

\* Copyright (c) 1998-1999, 2001, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_flash-threshold.h

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

/\*

\*-----

\* routemap\_ios.c -- Route map support routines that can be shared  
\* by RP and VIP/LC

\*

\* July 1998 Wilber Su

\*

\* Copyright (c) 1998-2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_ios.c

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

/\*

\*-----

\* policylist\_ios.c - IOS stubs for notification routines  
\* in policylist code

\*

\* Jun 2005, Tony P. Ambalathingal

\*

\* Copyright (c) 2003, 2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/policylist\_ios.c

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

/\*

\*-----

\* route\_map\_http\_ion.c

\*

\* March, 2003 Phil Winterfield

\*

\*

\* Copyright (c) 2003-2004, 2006-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_http\_ion.c  
No license file was found, but licenses were detected in source scan.

/\*-----

\* route\_map\_globs.c

\*

\* This file has the route map globals common to blob (for lc images)  
\* and routing process(for routing images).

\*

\* Copyright (c) 2002-2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

/\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_globs.c  
No license file was found, but licenses were detected in source scan.

# All rights reserved.

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/reg/route\_map\_registry.reg  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/reg/router\_topology\_registry.reg  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/makefile  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/reg/ion\_iprouting\_cmd\_registry.reg  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/reg/router\_af\_actions\_registry.reg  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/.signature/makefile  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/reg/routing\_context\_registry.reg  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/reg/iprouting\_registry.reg  
\*  
/opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/reg/lfafr\_registry.reg  
No license file was found, but licenses were detected in source scan.

/\*

/\*-----

\* ip\_prefixlist\_ion.h - IP Prefix Lists support for ION

\*

\* June 2002, Siva Yaragalla

\*

\* Copyright (c) 2002, 2005, 2007-2017 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/ip\_prefixlist\_ion.h

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

/\* \$Id: cfg\_router\_distribute.h,v 3.3.50.2.6.1 1996/09/12 19:08:19 perry1 Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_distribute.h,v \$

\*-----

\* C F G \_ R O U T E R \_ D I S T R I B U T E . H

\*

\* Copyright (c) 1992-2001, 2003-2012, 2015-2016, 2018 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_router\_distribute.h,v \$

\* Revision 3.3.50.2.6.1 1996/09/12 19:08:19 perry1

\* Branch: Att-branch

\* Allow virtual-access interface for distribute-list

\*

\* Revision 3.3.50.2 1996/08/12 16:03:44 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.3.50.1 1996/05/04 01:21:18 wilber

\* Branch: California\_branch

\*

\* Constrained Multicast Flooding

\* - Define MOSPF hello option bit.

\*

\* Name Access List

\*

\* Revision 3.3 1995/12/04 06:47:13 tli

\* CSCdi43559: IP: distribute-list 101 out should work

\*

\* Revision 3.2 1995/11/17 17:32:10 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:05:34 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/07/01 12:15:52 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:12:36 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/cfg\_router\_distribute.h

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

/\*

\*-----

\* policylist\_blob.c - Routines to handle policy-list commands.

\* Common for IOS and ION Blob.

\*

\* November 2003, Siva Yaragalla

\*

\* Copyright (c) 2003-2008, 2010 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/policylist\_blob.c

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

/\*-----

\* ip\_stats.c - IP for topology aware stats

\*

\* April 2006, Jonsky Hsu

\*

\* Copyright (c) 2006-2010 by cisco Systems, Inc.

\* All rights reserved.

\*

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_stats.c

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

/\*-----

\* IP routemap test commands

\*

\* May 2003, Tanya Shastri

\*

\* Copyright (c) 2003, 2005-2008, 2011-2013, 2015, 2018-2019 by cisco Systems, Inc.

\* All rights reserved.

\*

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_test\_ip\_routemap.h

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

/\*-----

\* route\_map\_def.h - Route Map Tyep Definition

\*

\* Feb, 2006 Allen Hu

\*

\* Copyright (c) 2006-2008, 2017 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/route\_map\_def.h

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

/\*

\*-----

\* ip\_prefixlist\_ionized.c - IP Prefix Lists support for ionized processes

\*

\* August 2001, Siva Yaragalla

\*

\* Copyright (c) 2001-2004, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_ionized.c

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

/\*\$Id: cfg\_router\_maximum-paths.h,v 3.2 1995/11/17 17:32:11 hampton Exp \$

\* \$Source: /swtal/cherf.111/ios/sys/iprouting/cfg\_router\_maximum-paths.h,v \$

\*-----

\* cfg\_router\_maximum-paths.h

\*

\* <July> 1994 rchandra

\*

\* Copyright (c) 1994-2016, 2019 by cisco Systems, Inc.

\* All rights reserved.

```

*-----
* $Log: cfg_router_maximum-paths.h,v $
* Revision 3.2 1995/11/17 17:32:11 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:39 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:53 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:44 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_maximum-paths.h
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* router_af_actions.h
*
* Router Address Family action declarations.
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002, 2004-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/router_af_actions.h
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* ion_iprouting_cmd_registry.c
*
* September 2001, Rashmi Shrivastava
*
* Copyright (c) 2001, 2003, 2005-2008 by cisco Systems, Inc.
* All rights reserved.

```

```
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ion_iprouting_cmd_registry.c  
No license file was found, but licenses were detected in source scan.
```

```
/*  
*-----  
* protofltr.h  
*  
* Routing protocol filter manager Public API definitions  
*  
* Jan 2006, Mercia Zheng  
*  
* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/protofltr.h  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$  
* $Source$  
*-----  
* cfg_router_validate.h  
*  
* Nob to allow user to decide whether or not system should sanity check  
* source IP address of incoming routing updates.  
*  
* March 1994, Bruce Cole  
*  
* Copyright (c) 1994-2002, 2007-2008 by cisco Systems, Inc.  
* All rights reserved.  
*  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_validate.h  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: exec_show_route-map.h,v 3.2.60.1 1996/08/12 16:04:13 widmer Exp $
```



\* \$Source: /release/112/cvs/Xsys/iprouting/exec\_show\_route-map.h,v \$

\*-----

\* exec\_show\_route-map.h

\*

\* Copyright (c) 1993-1996, 1998, 2003-2008, 2011 by cisco Systems, Inc.

\* All rights reserved.

\*

\* Command parsing chain for "show route-map".

\*-----

\* \$Log: exec\_show\_route-map.h,v \$

\* Revision 3.2.60.1 1996/08/12 16:04:13 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.2 1995/11/17 17:33:31 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:07:29 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\*

Revision 2.1 1995/07/01 12:16:22 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:25:36 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/exec\_show\_route-map.h

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

/\*

\*-----

\* routemap\_debug.h -- Routemap debugging support

\*

\* July 1998, Wilber Su

\*

\* Copyright (c) 1998, 2004, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routemap\_debug.h

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

/\*

\*-----  
\* exec\_debug\_routemapapi.h -- Debugging for Route-map API

\*

\* May 2003, Tanya Shastri

\*

\* Copyright (c) 2003-2004, 2007-2008, 2014 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/exec\_debug\_routemapapi.h

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

/\* \$Id\$

\* \$Source\$

\*-----

\* iprouting\_commands.h -- Support for extern command function decleration

\*

\* September 2001, Rashmi Shrivastava

\*

\* Copyright (c) 2001-2010, 2013, 2016 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/iprouting\_commands.h

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

#-----

# iproutingcmn\_router\_cmd.run-doxygen -- Run-doxygen Configuration File for

# IP Routing Common Router Commands

#

# December 2007, Chi Iong Ansjory

#

# Copyright (c) 2007-2008, 2012 by cisco Systems, Inc.

```

# All rights reserved.
#-----

#-----
# RUN-DOXYGEN CONFIG FILE
#
# The variables defined in this file are used by the run-doxxygen script to
# execute doxygen and generate API documentation.
# This file will be sourced by a bourne shell script (/bin/sh)
# and so must follow the bourne shell script syntax
#
# This default configuration file is setup to work for the XOS project.
# If you want to reuse it, you must customize the properties below in order to
# make it work for your project.

#
# For more help contact doxygen-trolls@cisco.com
#-----

# The PROJECT_NAME variable is a single word (or a sequence of words surrounded
# by quotes) that should identify the project.

PROJECT_NAME=IPROUTINGCMN_ROUTER_CMD

# The PROJECT_NUMBER tag can be used to enter a project or revision number.
# This could be handy for archiving the generated documentation or
# if some version control system is used.

PROJECT_NUMBER=0.1.0.2

# The latest version of doxygen can be picked on the shared storage
# of the XOS/Component Framework team
# This executable can only run on linux 2.6 !!!!
#DOXYGEN=/auto/ios_comp/tools/doxygen-1.5.4/bin/doxygen
# Change this sanity check when doxygen will be supported for other hosts
#host=`uname -s`
#host_version=`uname -r`
#if [ $host != "Linux" ]; then
#  echo "Error: this wrapper can only be executed from Linux"
#  exit
#fi
#if [ $host_version \< "2.6" ]; then
#  echo "Error:
#  this wrapper requires Linux 2.6 or higher"
#  exit
#fi
#
#

```

```

# The location of the latex suite, this is needed only if the PDF
# generation option is used (-f)
# This binary is also only available on linux 2.6
#
#LATEX_PATH=/auto/ios_comp/tools/tetex/bin/i686-pc-linux-gnu
#LATEX_PATH=/usr/bin
#
#-----

# Use this variable to specify one or more wildcard pattern (like *.cpp
# and *.h) to filter out the source-files in the directories.

FILE_PATTERNS="ip_stats.h iprouting_debug.h router_af_actions_registry.reg"

# Exclude all internal defines (defines used to guard against multiple
# inclusions of the same header file)
EXCLUDE_SYMBOLS="__*_H__ reg_add* reg_delete* service_* reg_used* \
_reg_add* reg_inv_* reg_svr* _registry* registry* REG_ELOG *_GEN_ID \
*_DEFINED *_argt *_res \
bgp* ospf* debug* route_debug* igrp* ipcache* ipproc* ip_mobile* netred* \
iprouting_acl DEBUG_ROUTING_PROT MISC_DEBUG_VARS \
DEBUG_ROUTING*
ALTP_BGF* __DEBUG_FLAGS* \
iprouting_debug_init iprouting_set_debug_array iprouting6_debug_list_command \
iprouting_debug_list_command iprouting_nsap_debug_list_command \
iprouting_debug_acl_notify \
reg_invoke_address_family_action_get_entries \
reg_invoke_address_family_action_nvgen_exit"

# When all symbols in a project start with a common prefix, by default all
# symbols will be put under the same header in the alphabetical index.
# The IGNORE_PREFIX tag can be used to specify one or more prefixes that
# should be ignored while generating the index headers. This will allow
# to spread the symbol index more evenly.

IGNORE_PREFIX="xos_XOS_"

# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in
# documentation are documented, even if no documentation was available.
# Private class members and static file members will be hidden unless
# the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES

EXTRACT_ALL=YES

# If the EXTRACT_STATIC tag is set to
# YES all static members of a file
# will be included in the documentation.

```

EXTRACT\_STATIC=YES

# If the HIDE\_UNDOC\_MEMBERS tag is set to YES, Doxygen will hide all  
# undocumented members of documented classes, files or namespaces.  
# If set to NO (the default) these members will be included in the  
# various overviews, but no documentation section is generated.  
# This option has no effect if EXTRACT\_ALL is enabled.

HIDE\_UNDOC\_MEMBERS=NO

#-----

# VARIABLES RELATED TO DOXYGEN OUTPUT

# This is the root of the destination folder (local variable)  
# Note that the archive area and the workspace area do not have to share the  
# same destination root.

DST\_BASE=/auto/ios\_comp/iprouting\_cmn

# This is the URL through which the DST\_BASE folder can be accessed  
# from the intranet. This URL depends on the location of the storage.  
# Contact IT to find out the correct URL.

# (Local variable)

URL\_DST\_BASE=http://sjc-filer29a-web/projects/ios\_comp/iprouting\_cmn

#

---- WORKSPACE AREA

# Relative path (to DST\_BASE) - used by OUTPUT\_WORKSPACE (local variable)

WORKSPACE\_FOLDER=api-docs

# This is the full pathame of the root under which all normal output folders will be located

OUTPUT\_WORKSPACE=\$DST\_BASE/\$WORKSPACE\_FOLDER

# This is the URL of the above OUTPUT\_WORKSPACE directory

# Only used for displaying where to access the documentation after the doxygen run

URL\_WORKSPACE=\$URL\_DST\_BASE/\$WORKSPACE\_FOLDER

# ---- ARCHIVE AREA

# Relative path (to DST\_BASE) - used by OUTPUT\_ARCHIVE (local variable)

ARCHIVE\_FOLDER=archive/xoslib

# This is the full pathame of the root under which all archive output folders will be located

OUTPUT\_ARCHIVE=\$DST\_BASE/\$ARCHIVE\_FOLDER

# This is the URL of the above OUTPUT\_WORKSPACE directory

# Only used for displaying where to access the documentation after the doxygen run

URL\_ARCHIVE=\$URL\_DST\_BASE/\$ARCHIVE\_FOLDER

#-----

```

#
VARIABLES RELATED TO DOXYGEN INPUT

# This is the root of the API source code (local variable)
SRC_BASE=/vob/cisco.comp/routing/iprouting_cmn

# This is the location of all the API public header files (or directories)
# In XOS all public header files are located in one directory
API_PUBLIC="$SRC_BASE/include $SRC_BASE/include/reg"
#API_PUBLIC="$SRC_BASE/include"

# This is the location of all the API source code, used with option -all only
# if you want to generate doxygen documentation for the source code
# (only useful for internal code review)
# Do not put the content of API_PUBLIC as it is added automatically
API_ALL="$SRC_BASE/shared $SRC_BASE/ios $SRC_BASE/iox $SRC_BASE/linux"

# The EXAMPLE_PATH tag can be used to specify one or more files or
# directories that contain example code fragments that are included (see
# the @example command).

EXAMPLE_PATH=$SRC_BASE/test/src

# The IMAGE_PATH tag can be used to specify one or more
# directories that contain image that are included
# in the documentation (see
# the @image command).
# This is only used/relevant if you have images in your API documentation.

IMAGE_PATH=$DST_BASE/api-docs-images

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/docs/iproutingcmn_router_cmd.run-doxxygen
No license file was found, but licenses were detected in source scan.

/*
* P A R S E R _ D E F S _ R O U T E R . H
*
* $Id: parser_defs_router.h,v 3.1.40.2 1996/07/30 06:56:06 rchandra Exp $
* $Source: /release/112/cvs/Xsys/iprouting/parser_defs_router.h,v $
*
* Copyright (c) 1985-2020 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log: parser_defs_router.h,v $
* Revision 3.1.40.2 1996/07/30 06:56:06 rchandra

```

```

* CSCdi64489: BGP: private-AS number cannot be removed from AS-path
* Branch: California_branch
* - add 'neighbor x.x.x.x remove-private-AS' command.
* - add 'inbound' keyword to 'neighbor x.x.x.x soft-reconfiguration'
* command (CSCdi64487)
*
* Revision 3.1.40.1 1996/04/16 19:02:10 rchandra
* CSCdi54830: IP features commit
* Branch: California_branch
*
* Revision 3.1 1996/02/01 04:58:48 hampton
* Migrate files out of the parser directory. [CSCdi47717]
* Step 1: Create
copies of the files to be moved in their new location.
*
* Revision 3.2 1995/11/17 18:52:17 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:56:05 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.4 1995/08/28 21:14:47 rchandra
* CSCdi39436: BGP : Allow conditional unsuppression of suppressed routes
* - add 'neighbor x.x.x.x unsuppress-map <map>' command
*
* Revision 2.3 1995/07/06 23:11:21 rchandra
* CSCdi36759: BGP : Add conditional per neighbor default generation
* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
*
* Revision 2.2 1995/06/30 20:24:40 rchandra
* CSCdi36620: BGP requires IBGP neighbors to be fully meshed
*
* Revision 2.1 1995/06/07 22:31:08 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/parser_defs_router.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: cfg_router_network.h,v 3.2.60.1 1996/08/12 16:03:46 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_network.h,v $
*-----
* C F G _ R O U T E R _ N E T W O R K . H
*

```

\* Copyright (c) 1992-2002, 2004-2009, 2013, 2018 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_router\_network.h,v \$

\* Revision 3.2.60.1 1996/08/12 16:03:46 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.2 1995/11/17 17:32:18 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:05:49 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.2 1995/09/25 08:30:52

tli

\* CSCdi40960: ISP jumbo patch 2

\*

\* Revision 2.1 1995/07/01 12:15:58 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:12:56 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/cfg\_router\_network.h

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

/\* \$Id: exec\_show\_ip\_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:59 enkechen Exp \$

\* \$Source: /release/111/cvs/Xsys/ip/exec\_show\_ip\_prefixlist.h,v \$

\*-----

\* exec\_show\_ip\_prefixlist.h -- Show IP prefix lists

\*

\* July 1997 Enke Chen

\*

\* Copyright (c) 1994-1998, 2000-2001, 2007-2008, 2010 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: exec\_show\_ip\_prefixlist.h,v \$

\* Revision 3.1.2.1 1997/12/17 21:36:59 enkechen



\* CSCdj61356: Prefix-list - facility for efficient route filtering

\* Branch: FIB\_branch

\*

\* Revision 3.1 1997/12/17 01:46:35 enkechen

\* Start with the new file.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_show\_ip\_prefixlist.h

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

/\*

\*-----

\* routemap\_track.h -- Route map support for tracking

\*

\* March 2003 Shyan Wignarajah

\*

\* Copyright (c) 2003, 2006-2008, 2010, 2012-2014 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routemap\_track.h

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

/\*

\*-----

\* Generic prefix list support - prefix lists private header file

\*

\* March 2002, Siva Yaragalla

\*

\* Copyright (c) 2002, 2004, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_private.h

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

/\*

\* \$Id: route\_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/route\_map.h,v \$

\*-----

```

* route_map.h
*
* Route map support data structures.
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
* -----
* $Log: route_map.h,v $
* Revision 3.3.12.6 1996/05/04 01:22:42 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.3.12.5 1996/04/16 19:02:23 rchandra
* CSCdi54830: IP features commit
* Branch: California_branch
*
* Revision 3.3.12.4 1996/04/05 03:46:42 rchandra
* CSCdi53755: BGP: flap dampening settings not flexible enough
* Branch: California_branch
* - add route-map support to set flap dampening parameters
*
* Revision 3.3.12.3 1996/04/02 07:29:32 dkatz
* CSCdi52277: Redistribution metric problems with IGRP/EIGRP
* Branch: California_branch
* Always store canonical metrics scaled for IGRP, and make EIGRP do
* its own scaling internally. Get the scaling right in all three
* places.
*
* Revision 3.3.12.2 1996/03/28 23:59:20 rchandra
* CSCdi52098: BGP: exact keyword not accepted by route-map in community
* match
* Branch: California_branch
* - fix my silly bug in handling exact community matching
* - limit the range of valid community to 0xFFFF0000
* - fix a cosmetic bug in show ip community-list
*
* Revision 3.3.12.1 1996/03/28 22:28:27 rchandra
* CSCdi52880: BGP: generate error message for unsupported route-map
* options
* Branch: California_branch
* - generate error message when unsupported route-map option is used
* - tread confederation EBGp neighbors similar to internal neighbors in
* best path selection
* - fix the bug in bgp_compare_med, so that

```

during MED comparison,

- \* confederation information is skipped properly
- \* - confederation EBGP paths should be inserted into the IP table with
- \* internal distance
- \* - do not consider common-AS neighbors as confederation neighbors
- \* - during 'clear ip bgp dampening' avoid skipping paths
- \* - undo the patch to the radix version walker
- \*
- \* Revision 3.3 1996/02/17 01:23:27 myeung
- \* CSCdi49210: match tag clause does not work with static routes
- \*
- \* Revision 3.2 1995/11/17 17:37:17 hampton
- \* Remove old entries from the RCS header logs.
- \*
- \* Revision 3.1 1995/11/09 12:10:38 shaker
- \* Bump version numbers from 2.x to 3.x.
- \*
- \* Revision 2.4 1995/09/25 08:31:20 tli
- \* CSCdi40960: ISP jumbo patch 2
- \*
- \* Revision 2.3 1995/07/12 07:19:12 tli
- \* CSCdi36426: Policy routing will not disable on an interface
- \* - Policy routed packets were creating fastswitching cache entries.
- \* That's not till \_next\_ release.
- \* - Add counters to record packet and byte count on a per route map entry
- \* basis.
- \* - Marketing identified a catastrophic deficiency. Implemented "set ip
- \* tos" and "set ip precedence" to cover this deficiency.
- \*
- \* Revision 2.2 1995/07/06 23:12:41 rchandra
- \* CSCdi36759: BGP : Add conditional per neighbor default generation
- \* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
- \*
- \* Revision 2.1 1995/06/07 21:10:57 hampton
- \* Bump version numbers from 1.x to 2.x.
- \*
- \*-----
- \* \$Endlog\$
- \*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/route\_map.h

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

/\* \$Id\$

\* \$Source\$

\*-----

```
* CFG_ROUTER_DEFAULTS.H
*
* Copyright (c) 1992-2011, 2013, 2015-2016, 2019 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_default.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* iprouting_common.h - Basic types for IP routing (IPv4/IPv6)
*
* Contains:
* - address family enum,
* - tableid type and related macros
* - topoid type and related macros
* - private topoid definitions and APIs
* - generic non-routing ID definitions/APIs
*
* Warning: this file should not have any dependency on other header file
* except those where basic C types are defined.
*
* June 2003, Luc Revardel
*
* Copyright (c) 2003-2013, 2016, 2018, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_common.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* cfg_int_ip2_vnet_routing.h
*
* Interface VNET submode configuration IP commands.
*
* Copyright (c) 2009-2010 by cisco Systems, Inc.
* All rights reserved.
*
*-----
```

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_int\_ip2\_vnet\_routing.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

-----

\* iprouting\_init\_blob.c -- Partner file (in blob) for iprouting\_init.c

\*

\* 27-August-2001, Fan Kong

\*

\* Copyright (c) 2001-2011, 2015, 2019 by cisco Systems, Inc.

\* All rights reserved.

-----

\* \$Log\$

-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_init\_blob.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id: exec\_show\_protocols.h,v 3.3.20.1 1996/08/12 16:04:12 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/exec\_show\_protocols.h,v \$

-----

\* EXEC\_SHOW\_PROTOCOLS.H

\*

\* Copyright (c) 1992-1996, 2007-2009 by cisco Systems, Inc.

\* All Rights Reserved

-----

\* \$Log: exec\_show\_protocols.h,v \$

\* Revision 3.3.20.1 1996/08/12 16:04:12 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.3 1996/01/29 07:08:56 hampton

\* Remove command number arguments passed to parse routines that only

\* perform a single function. [CSCdi47717]

\*

\* Revision 3.2 1995/11/17 17:33:30 hampton

\* Remove old entries from

the RCS header logs.

\*

```

* Revision 3.1 1995/11/09 12:07:27 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:21 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:25:21 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_show_protocols.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* IP routing show commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2003, 2005, 2007-2011, 2013, 2015-2020 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_show_ip_routing.h
No license file was found, but licenses were detected in source scan.

```

```

!-----
! iproutingcmn_router_cmd.sesut - IPv4 Routing Common Router
!   Commands Unit Test Routines
!
! December 2007, Chi Iong Ansjory
!
! Copyright (c) 2007 by cisco Systems, Inc.
! All rights reserved.
!-----
! Sample unit test description file.

```

! This file is used for generation of unit test module by SESUT.  
! See [http://www.in-ses.cisco.com/unittest/sesut\\_ios.html](http://www.in-ses.cisco.com/unittest/sesut_ios.html) for  
! information about SESUT.  
!  
! Include a description of your test here.  
!  
! This is made up of many sections. Each section header starts with % in  
! first column. It is followed by the section identifier.  
! Lines that have '!' in the first column are considered comments.  
! Blank lines are ignored.  
!  
! You can report success/failure of your test by calling the following  
! functions.  
! Call sesut\_<file prefix>\_testpass to indicate  
test success.  
! void sesut\_<file prefix>\_testpass(void);  
! Call sesut\_<file prefix>\_testfail to indicate test failure.  
! void sesut\_<file prefix>\_testfail(const char \*fmt, ... );  
! The length of the formatted string should be less than or equal  
! to 255. Else it will be truncated.  
! Prototypes for these functions are included in the header file that  
! is generated by SESUT.

#### % Cflow

! Enter the files/subsystems in the unit under test.  
! These files will be instrumented for Cflow and MIF(if MIF is  
! available in your view). GDB flag -g is used during compilation.  
!cflow\_list=\$(sub\_mif) xyz.o \$(my\_subsys) abc.o  
! This list is ignored if ses\_iouut is used. ses\_iouut instruments all files  
! in UUT(defined by -old and -new options).

#### % MIF

! Enter MIF configuration  
! If MIF configuration is not specified and cflow\_list is specified  
! then a default MIF configuration is used.

!./os/free.c  
!./os/buffers.c  
!./os/chunk.c  
!-----  
!malloc  
!malloc\_aligned  
!malloc\_fast  
!malloc\_pcimem  
!malloc\_named  
!chunk\_malloc  
!getbuffer  
!pool\_getbuffer

```

%
API
! Include DTD configuration.
! Not all features of DTD are available with SESUT yet.
! List headers/text that contain prototypes for the functions to be tested
! for robustness followed by a line consisting of '-'s followed by
! the list of functions to be tested for robustness.
! It is assumed that a .h file that includes all the text listed above
! the line consisting of '-'s is self-compiling in the same context as
! the one used to compile the .sesut file and has the definitions of
! all the objects whose pointers are referenced.
!master.h
!../testtools/testtools.h
!../testtools/testtools_private.h
!<stdio.h>
!void mynewapi(int,int);
!-----
!mif_enable
!mif_disable
!mif_clear
!mif_lock
!mynewapi

% env
! Use this section to list object modules that are not
! part of the standard build but are used by the tests defined in this
! file. The text following "link:" is inserted
! into the final link step.
!link: xyz.o abc.o
!
! Use this section to add any special 'CFLAGS' needed to compile sesut
! generated test file
!cflags: -I../http/http_core/include
!cflags: -I../http/http_core/server
!cflags: -I../ios_http_core/config -I../http/http_core/lib
!cflags: -DEW_CONFIG_OPTION_CLIENT_CACHE
!
! You can specify functions to be executed before and after the test.
! pretest is executed before executing the unit test and the posttest is
! executed after executing the unit test. These are executed once regardless
! of the repeat count. The prototypes of these functions are expected to be:
! void <pretest>(void);
! void <posttest>(void);
! Define these functions in the 'model prolog' section. Note that these
! are optional. You can have one or both or none.
!pretest:config_my_feature
!posttest:validate_results

```



```

! If want want your pretest/posttest functions to receive same
! parameters as the test then specify the functions as:
!pretest_withparams:config_my_feature
!posttest_withparams:validate_results
!
The prototypes for these functions would be:
! void <pretest_withparams>(<types of parameters>)
! void <posttest_withparams>(<types of parameters>)
! Parameters are specified using "parameter:" keyword in % model" section.
! If both {pre|post}test and {pre|post}test_withparams are specified:
!   pretest is executed before pretest_withparams.
!   posttest is executed after posttest_withparams.

! You can specify a initializer/finalizer function to be executed
! at the time of test initialization/removal.
! Initializer is executed once during the lifetime of the current instance of
! the test. If the test is part of the image then the initializer is executed
! during subsystem initialization. If the test is a DLST(dynamically loaded)
! then the initializer is executed just after the dynamic load.
! The finalizer is executed when the test is removed (happens when the test is
! being replaced).
! Note that the subsystems in
the DLST are not initialized. You must list the
! subsystem init functions in the initializer function. Subsystem header is
! ignored for DLST's. You will not see the subsystems for DLST's listed in
! "show subsys" output.
! Use initializer to perform tasks like registry addition, memory allocation etc.
! Similarly use the finalizer to free these resources. This is an important
! consideration. Treat them like constructor/destructor for the DLST.
!
! The prototypes of these functions are expected to be:
!   void <initializer>(void);
!   void <finalizer> (void);
! Define these functions in the 'model prolog' section. Note that these
! are optional. You can have one or both or none.
!initializer:my_init
!finalizer:my_finit

% model prolog iou
! This code will be copied unchanged to the start of the generated .c file
! Include definitions, declarations, include statements that
! are used in the model
! You can include stubs for the functions that are not ready yet but are
! invoked.
!
! If you choose to have pretest and posttest functions include them here.
!

```

```
! "model prolog " accepts additional keywords.
! dt - This is meaningful in automation environments. If the test you are
!   creating alters global state then use "dt" keyword. This informs
!   automation framework that device should be reloaded prior to
!   running next test.
! iou - Use this keyword if the test can be executed under IOU.
! preinit - Use this if the test executes prior to system initialization.
! % model prolog dt
```

```
#include IOS_INC(testtools/sesutlib_ios.h)
#include <routing/iprouting_cmn/include/ip_stats.h>
#include <routing/iprouting_cmn/include/iprouting_debug.h>
#include <routing/iprouting_cmn/include/router_af_actions_registry.h>
```

```
boolean sesrc;
```

```
% model digraph
! Describe the model. You have structured your test as a
! directed graph. Start keywords in column 1. Start the code at an
! offset(2TABS). This line("model digraph") can have an optional keyword.
! That is "vdag".
! This would generate testcases representing various
! acyclic paths leading from the start node. These tests cover all nodes.
! This does not guarantee that all the edges are covered.
! If your test model is a tree(or hierarchical) or a DAG(Directed Acyclic
! Graph) then you should use this keyword.
!% model digraph vdag
! There are three keywords. They are
! start node <nodeIdentifier> - Specify the start node in the model
! node <nodeIdentifier>: - Beginning of a node description.
!     Include descriptions for all edges starting at this node.
!     If there is code to be executed upon entry to this node
!     enter that immediatly following this line but before
!     entering any edge description.
! -><nodeIdentifier>: - Beginning of an edge description. This describes an
!     edge from the node to &lt;n>
! Choose <nodeIdentifier> to be descriptive. Examples: AVLTreeInsert,
!     DBSearch, DetachLine
!
! These identifiers are used during runtime to present execution times
! and other data.
! You can specify parameters for your unit test as follows:
!parameters:(uint interface, char* hostname="abc", uint subInterface=1)
!This should come before the line specifying the start node.
!The parameters can be used in the code for nodes/edges. The values
!for parameters are received via CLI or as a result of direct invocation of
!the generated function. Parameters can be of type 'uint'
!or 'char*'. If values for parameters are provided on CLI defaults are used.
```

! You should provide default values. If default values are not specified  
! then the tool would assign default values. If the type is "uint" the  
! default value is 0. Else(type char\*) the default value is "".  
! During automation the default values are used. Use descriptive names  
! for parameters.

start node StartNode

! You can place initialization code that needs to be executed  
! prior to entering the start node here.

node StartNode:

!

===== 6 APIs from ip\_stats.h/ip\_registry.reg =====

! 1. DEFINE show\_ip\_interface\_with\_topo

```
(void) sesut_execcommand(FALSE, "show ip interface e0/0 topology base stats");  
printf("\n----- SESUT Test Reg: show_ip_interface_with_topo -----");
```

! 2. DEFINE clear\_ip\_interface\_with\_topo

```
(void) sesut_execcommand(FALSE, "clear ip interface e0/0 topology base stats");  
printf("\n----- SESUT Test Reg: clear_ip_interface_with_topo -----");
```

! 3. DEFINE show\_ip\_traffic\_with\_topo

```
(void) sesut_execcommand(FALSE, "show ip traffic topology base");  
printf("\n----- SESUT Test Reg: show_ip_traffic_with_topo -----");
```

! 4. DEFINE clear\_ip\_traffic\_with\_topo

```
(void) sesut_execcommand(FALSE, "clear ip traffic topology base");  
printf("\n----- SESUT Test: clear_ip_traffic_with_topo -----");
```

! 5. DEFINE show\_ip\_interface\_stats

```
(void) sesut_execcommand(FALSE, "show ip interface e0/0 stats");  
printf("\n----- SESUT Test Reg: show_ip_interface_stats -----");
```

! 6. DEFINE clear\_ip\_interface\_stats

```
(void) sesut_execcommand(FALSE,  
"clear ip interface e0/0 stats");  
printf("\n----- SESUT Test Reg: clear_ip_interface_stats -----");
```

! ===== 2 APIs from iprouting\_debug.h =====

! 1. void

```
! iprouting_debug_arr_ios_set_csb(struct parseinfo_ *csb);
```

```
!iprouting_debug_arr_ios_set_csb(NULL);
printf("\n----- SESUT Test: iprouting_debug_arr_ios_set_csb() -----");
```

! 2. void

```
! iprouting_ios_call_debug_cmd(struct parseinfo_ *csb);
```

```
!iprouting_ios_call_debug_cmd(NULL);
printf("\n----- SESUT Test: iprouting_ios_call_debug_cmd() -----");
```

! ===== 1 API from router\_af\_actions\_registry.reg =====

! 1. DEFINE address\_family\_action\_named\_router REMOTE 3

```
sesrc = reg_invoke_address_family_action_named_router(NULL);
printf("\n----- SESUT Test Reg: address_family_action_named_router -----");
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/test/iproutingcmn_router_cmd.sesut
```

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

```
/*-----
* route3_ionized.c
*
* ION specific route3.c parser functions.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route3_ionized.c
```

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

```
/* $Id$
* $Source$
*-----
* Registry for IP routing infrastructure in ION
*
* September 2001, Fan Kong
*
* Copyright (c) 2001-2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
```

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_registry.h

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

/\* \$Id: route\_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/route\_map.h,v \$

\*-----

\* policylist.h -- Policy list support data structures

\*

\* April 2000, Rex Fernando

\*

\* Copyright (c) 2000, 2002-2003, 2005, 2007-2011 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/policylist.h

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

/\* \$Id\$

\* \$Source\$

\*-----

\* cfg\_routemap\_set.h

\*

\* Process route-map set subcommands.

\*

\* Copyright (c) 1992-1998, 2001-2003, 2007-2019 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_routemap\_set.h

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

/\*

\*-----

\* routemap\_ios\_chain.c -- Route-map generic ios parse chains that

\* will be in both RP and VIP/LC

\*  
\* July 1998, Wilber Su  
\*  
\* Copyright (c) 1998, 2004-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_ios\_chain.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_distance.h,v 3.2.60.1 1996/05/04 01:21:16 wilber Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_distance.h,v \$  
\*-----  
\* C F G \_ R O U T E R \_ D I S T A N C E . H  
\*  
\* The bgp version must come before the weight version so that both NVGEN  
\* and normal processing happen correctly.  
\*  
\* Copyright (c) 1992-1999, 2001-2010, 2015-2016, 2019-2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log: cfg\_router\_distance.h,v \$  
\* Revision 3.2.60.1 1996/05/04 01:21:16 wilber  
\* Branch: California\_branch  
\*  
\* Constrained Multicast Flooding  
\* - Define MOSPF hello option bit.  
\*  
\* Name Access List  
\*  
\* Revision 3.2 1995/11/17 17:32:05 hampton  
\* Remove old entries from the RCS header logs.  
\*  
\* Revision 3.1 1995/11/09 12:05:29 shaker  
\* Bump version  
numbers from 2.x to 3.x.  
\*  
\* Revision 2.1 1995/07/01 12:15:50 tli  
\* CSCdi36508: Rationalize parser file placement, part I  
\* Rationalize iprouting  
\*  
\* Revision 2.1 1995/06/07 22:12:30 hampton  
\* Bump version numbers from 1.x to 2.x.  
\*  
\*-----  
\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_distance.h

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

/\*

\*-----

\* protofltr\_debug.c - Debug functions for protocol filter manager

\*

\* Mercia Zheng, Jan 2006

\*

\* Copyright (c) 2006-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/protofltr\_debug.c

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

/\*

\*-----

\* cfg\_router\_topology.h - router topology configuration mode command

\*

\* Sept 2004, Mercia Zheng

\*

\* Copyright (c) 2004-2005, 2007-2009, 2013 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_topology.h

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

/\*

\*-----

\* iprouting\_init\_ionblob.c -- IP Routing Init code for blog in ION only

\*

\* October 2001, Rashmi Shrivastava

\*

\* Copyright (c) 2001-2017 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_init\_ionblob.c

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

```
/* $Id$
 * $Source$
 *-----
 * Registry for routing context for RP and LC common code.
 *
 * September 2009, Derek Yeung
 *
 * Copyright (c) 2009 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 * $Log$
 *-----
 * $Endlog$
 */
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/routing\_context\_registry.h

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

```
/* $Id$
 * $Source$
 *-----
 * Address Family configuration mode commands.
 *
 * April 1998, Bob Thomas
 *
 * Copyright (c) 1998-1999, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 * $Log$
 *-----
 * $Endlog$
 */
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_af\_mode.h

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

```
/*-----
 * ip_stats.h - IP for topology aware stats
 *
 * February 2006, Jonsky Hsu
 *
```



\* Copyright (c) 2006-2008 by cisco Systems, Inc.

\* All rights reserved.

\*

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/ip\_stats.h

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

/\*

\*-----

\* protofltr\_debug\_flags.h -- Protofltr manager debug flags declarations

\*

\* Jan 2006, Mercia Zheng

\*

\* Copyright (c) 2005-2008 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/protofltr\_debug\_flags.h

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

/\*

\*-----

\* route\_map\_ionized.c - Route Maps support for IONized processes

\*

\* July 2001, Siva Yaragalla

\*

\*

\* Route map subsystem for IOS style processes.

\*

\* Copyright (c) 2001-2009, 2011, 2016-2017 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_ionized.c

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

/\*-----

\* iprouting\_actions\_registry.h

\*

\* Router address family actions registry.

\*

```
* May 2002, Victor Kamensky
*
* Copyright (c) 2002-2003, 2007-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-  
tar/iprouting\_cmn/include/router\_af\_actions\_registry.h  
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* C F G _ R O U T E R _ T A B L E - M A P . H
*
* Copyright (c) 1993-1996, 1999, 2001, 2003, 2005-2019 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_table-map.h  
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* routing_context_registry.c
*
* September 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routing\_context\_registry.c  
No license file was found, but licenses were detected in source scan.

```

/* $Id: iprouting_actions.h,v 3.2 1995/11/17 17:34:39 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/iprouting_actions.h,v $
*-----
* IP routing specific parsing functions.
*
* August 1994, Bruce Cole
*
* Copyright (c) 1994, 2004-2008, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: iprouting_actions.h,v $
* Revision 3.2 1995/11/17 17:34:39 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:30 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:35 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/iprouting_actions.h
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* routemap_api.c -- Dynamic routemap APIs.
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2015, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_api.c
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* router_topology_parse.h
*
* Router topology parser functions declarations.
*

```

\* Sept 2004, Mercia Zheng  
\*  
\* Copyright (c) 2004-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/router\_topology\_parse.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id: exec\_debug\_ip\_routing.h,v 3.3.20.1 1996/06/27 04:40:57 mikel Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/exec\_debug\_ip\_routing.h,v \$  
\*-----

\* IP routing debug commands

\*  
\* May 1993, Robert Widmer  
\*  
\* Copyright (c) 1993-2003, 2005-2009, 2019 by cisco Systems, Inc.  
\* All rights reserved.  
\*  
\*-----

\* \$Log: exec\_debug\_ip\_routing.h,v \$  
\* Revision 3.3.20.1 1996/06/27 04:40:57 mikel  
\* CSCdi37749: <debug ip eigrp> help wrong  
\* Branch: California\_branch  
\* clean up ip-eigrp AS debugging  
\*  
\* Revision 3.3 1996/02/01 23:34:07 widmer  
\* CSCdi45325: Change Keyword/Set to use Keyword\_Id macro  
\*  
\* Revision 3.2 1995/11/17 17:33:17 hampton  
\* Remove old entries from the RCS header logs.  
\*  
\* Revision 3.1 1995/11/09 12:07:09 shaker  
\* Bump version numbers from 2.x to 3.x.  
\*  
\* Revision 2.2 1995/11/08 21:06:22 shaker  
\* Merge Arkansas\_branch into 11.1 mainline.  
\*  
\* Revision 2.1 1995/07/01 12:16:15 tli  
\* CSCdi36508: Rationalize parser file placement, part I  
\* Rationalize iprouting  
\*  
\* Revision 2.1 1995/06/07 22:18:58 hampton  
\* Bump version numbers from 1.x to 2.x.  
\*  
\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_debug\_ip\_routing.h

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

/\*

\*-----

\* protofltr\_public.h

\*

\* Routing protocol filter manager Public API definitions

\*

\* Dec 2008, Mercia Zheng

\*

\* Copyright (c) 2008-2009 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/protofltr\_public.h

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

/\* \$Id: cfg\_routemap\_exit.h,v 3.2.60.1 1996/08/12 16:03:34 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_routemap\_exit.h,v \$

\*-----

\* cfg\_routemap\_exit.h

\*

\* exit - exit from route-map configuration mode

\*

\* Copyright (c) 1992-1996, 2007-2009 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_routemap\_exit.h,v \$

\* Revision 3.2.60.1 1996/08/12 16:03:34 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.2 1995/11/17 17:31:42 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:05:03 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/07/01

12:15:44 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:12:09 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_routemap\_exit.h

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

/\*

\*-----

\* iprouting\_parser\_macros.h - Routing macros moved out of

\* sys/parser/macros.h

\*

\* November, 2004

\*

\* Copyright (c) 2004-2011, 2013, 2015, 2018 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-

tar/iprouting\_cmn/include/iprouting\_parser\_macros.h

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

/\* \$Id: cfg\_router\_traffic-share.h,v 3.3.20.1 1996/08/12 16:03:58 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_traffic-share.h,v \$

\*-----

\* cfg\_router\_traffic-share.h - parsing of the traffic-share command

\*

\* Oct 1993 Tony Li

\*

\* Copyright (c) 1993-1999, 2001-2002, 2004-2009, 2015 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_router\_traffic-share.h,v \$

\* Revision 3.3.20.1 1996/08/12 16:03:58 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

```

* Remove hidden keyword help strings
*
* Revision 3.3 1996/02/01 23:34:03 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:32:35 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:06:21 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:07 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:13:22 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_traffic-
share.h

```

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

```

/* $Id$
* $Source$
*-----
* route.h -- IP routing definitions
*
* 22-March-1986, Kirk Lougheed
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route.h

```

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

```

/*
*-----

```

```
* routemap_ios_blob.c -- Route map support routines that can be shared
* by RP and VIP/LC
*
* October 14, 2001 Siva Yaragalla
*
* Copyright (c) 2001-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_ios_blob.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* protofltr_debug.h -- Routing protocol filter manager debug flag
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2008 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug.h
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Id$
* $Source$
*-----
* route3.c -- Routing Support: Router command and related routines
*
* 15-June-1987, Kirk Lougheed
*
* Copyright (c) 1987-2021 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

```
*/
* If its not a per-user distribute-list, we have to configure the
* route-map for pflist_def too - its used to restore default when
* a per-user distribute-list is un-configured as well as for
```



```
* nvgen purposes. All this mess, only for the interface specific
* version.
*/
/*
* This command is only valid for ipv4 and nsap AFs in BGP.
* However it is accepted for other BGP AFs
* for backwards compatibility. However, no action
* is taken for these
AFs and it is not nvgen'ed
* either. Check out cfg_router_default.h for
* more details.
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route3.c
```

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

```
/*
*-----
* cfg_router_maximum-paths.h
*
* 22-May-2016, Les Ginsberg
*
* Copyright (c) 2016 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_maximum-sec-paths.h
```

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

```
/* $Id: cfg_router_metric.h,v 3.2 1995/11/17 17:32:13 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/cfg_router_metric.h,v $
*-----
* C F G _ R O U T E R _ M E T R I C . H
*
* Copyright (c) 1992-2002, 2004, 2006-2009 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_metric.h,v $
* Revision 3.2 1995/11/17 17:32:13 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:41 shaker
* Bump version numbers from 2.x to 3.x.
*
*/
```

```
* Revision 2.1 1995/07/01 12:15:54 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:46 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_metric.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: ip_routing.h,v 3.2 1995/11/17 17:34:12 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/ip_routing.h,v $
*-----
* ip_routing.h -- Generic IP routing declarations
*
* Mar 1995 Tony Li
*
* Copyright (c) 1995, 1998, 2004, 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: ip_routing.h,v $
* Revision 3.2 1995/11/17 17:34:12 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:06 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:05 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/ip_routing.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* Exit from BGP Address Family mode.
*
```

\* Sept 1998, Bob Thomas  
\*  
\* Copyright (c) 1998-1999, 2007-2009 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log\$  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_af\_exit.h  
No license file was found, but licenses were detected in source scan.

/\*  
\*-----  
\* iprouting\_debug.h -- Debugging declarations for IP routing  
\*  
\* May 1993, John Bashinski  
\*  
\* Copyright (c) 1993-2010 by Cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_debug.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_offset.h,v 3.3.20.4 1996/09/04 23:46:26 mikel Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_offset.h,v \$  
\*-----  
\* C F G \_ R O U T E R \_ O F F S E T . H  
\*  
\* Copyright (c) 1992-1998, 2002, 2004-2008 by cisco Systems, Inc.  
\* All Rights Reserved  
\*-----  
\* \$Log: cfg\_router\_offset.h,v \$  
\* Revision 3.3.20.4 1996/09/04 23:46:26 mikel  
\* CSCdi65889: offset-list doesnt work for EIGRP  
\* Branch: California\_branch  
\* Re-enable offset-list command as well as adding offset-list out support,  
\* and fix offset-list to work with access-lists  
\*  
\* Revision 3.3.20.3 1996/08/12 16:03:48 widmer  
\* CSCdi65725: Create Eolns macro that defaults csb->which to 0  
\* Branch: California\_branch  
\* Add Eolns and Nvgenns macro that default csb->which to 0

```

* Remove hidden keyword
help strings
*
* Revision 3.3.20.2 1996/05/04 01:21:23 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.3.20.1 1996/04/09 05:54:35 mikel
* CSCdi49628: EIGRP ignores outgoing offset-list
* Branch: California_branch
* disable offset-list command from eigrp router config
*
* Revision 3.3 1996/02/01 23:33:59 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:32:19 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:53 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:58 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:58 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

*
/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_offset.h
No license file was found, but licenses were detected in source scan.

```

```

#
#-----
# iprouting_api.enum - IP Routing public API enum definitions
#
# August 2009, Prashant Srinivas
#
# Copyright (c) 2009-2010 by cisco Systems, Inc.

```

```

# All rights reserved.
#-----
#

BEGIN IPRROUTING_API

#
# Enumeration of the possible reasons for disabling routing on an interface
#
# Note, string length of the LONG description, should be <= 16 chars,
#   and contain nothing but alfanumerical characters and _
#
ENUM routing_disable_flag_t

    ITEM ROUTING_DISABLE_FLAG_INT_IF
    LONG "Internal_IF"
    END ITEM

END ENUM

END

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/enum/iprouting\_api.enum

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

```

/*
*-----
* routemap_track.c -- Route map support for tracking
*           Functions which run on RP (not VIP).
*
* March 2003 Shyan Wignarajah
*
* Copyright (c) 2003-2008, 2013-2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_track.c

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

```

/* $Id
* $Source
*-----
* iprib_api_svr.c -- IP Routing Information Base (RIB) API definitions
*
* August-2001, Fan Kong

```

```
*
* Copyright (c) 2001-2012, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprib_api_svr.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* router_topology_registry.h
*
* Router topology registry.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/router_topology_registry.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* iprouting_parser_linkpoints.c - iprouting parser linkpoint defs.
*
* April, 2005
*
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_parser_linkpoints.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routing_context_chain.c
```

```
*
* Parse chain file for routing context support.
*
* March 2009, Derek Yeung
*
* Copyright (c) 2009, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routing_context_chain.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* cfg_routemap_match.h
*
* Process route-map match subcommands.
*
* Copyright (c) 1992-1999, 2002-2005, 2007-2012, 2018 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_match.h
No license file was found, but licenses were detected in source scan.
```

```
##
## content.lst file for iprouting_cmn
## See EDCS-905060 for more details.
##
## Oct 2010, Manu Pathak
##
## Copyright (c) 2010-2011, 2016 by cisco Systems, Inc.
## All rights reserved.
##
```

syntax: 1.0.0

```
# iprouting_cmn meta-source files
group: iprouting_cmn-generic
{
```

```

enum:
    iprouting_cmn/include/enum/iprouting_api.enum

reg:
    iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
    iprouting_cmn/include/reg/iprouting_registry.reg
    iprouting_cmn/include/reg/lfafrr_registry.reg
    iprouting_cmn/include/reg/route_map_registry.reg
    iprouting_cmn/include/reg/router_af_actions_registry.reg
    iprouting_cmn/include/reg/router_topology_registry.reg
    iprouting_cmn/include/reg/routing_context_registry.reg
}
# end of group: iprouting_cmn-generic

# iprouting_cmn source files
group: iprouting_cmn
{
    includes:
        ../generic/routing/iprouting_cmn/include
        $(COMPONENT_ROOT)/routing/iprouting_cmn/include
        $(COMPONENT_ROOT)/routing/iprouting_cmn/internal_inc
        $(COMPONENT_ROOT)/routing/iprouting_cmn/src
        $(COMPONENT_ROOT)/routing
        $(COMPONENT_ROOT)/posix/include
        $(IOS_SYSROOT)/ion/include
        $(IOS_SYSROOT)/crypto/ca
        $(IOS_SYSROOT)/crypto/ca/certcinc
        $(IOS_SYSROOT)/crypto/ca/bsafeinc
        $(IOS_SYSROOT)/crypto/ca/provider/include
    defines: CRYPTOCv5 CERTCv5
    cflags: -Wno-parentheses -Wno-uninitialized
    sub: ion_iprouting_cmd_registry
    {
        context: os==ion
        contains:
            iprouting_cmn/src/ion_iprouting_cmd_registry.c
    }
    sub: iprouting_blob
    {
        contains:
            iprouting_cmn/src/ip_routing.c
            iprouting_cmn/src/ip_stats.c
            iprouting_cmn/src/iprouting_actions.c
            iprouting_cmn/src/iprouting_chain.c
            iprouting_cmn/src/iprouting_debug.c
            iprouting_cmn/src/iprouting_init_blob.c
            iprouting_cmn/src/iprouting_setup.c
            iprouting_cmn/src/protofltr_debug.c
    }
}

```



```

    iprouting_cmn/src/route3_blob.c
    iprouting_cmn/src/routemap_debug.c
    iprouting_cmn/src/router_af_chain.c
    iprouting_cmn/src/router_topology_chain.c
    iprouting_cmn/src/routing_context_chain.c
}
sub: iprouting_cmn
{
    contains:
        iprouting_cmn/include/msg_iproute.rc
        iprouting_cmn/src/iprouting_cmn.c
}
sub: iprouting_common_blob
{
    contains:
        iprouting_cmn/src/ip_prefixlist_chain.c
        iprouting_cmn/src/policylist_blob.c
        iprouting_cmn/src/route_map_blob.c
        iprouting_cmn/src/routemap_track.c
}
sub: iprouting_common_ionblob
{
    context: os==ion
    contains:
        iprouting_cmn/src/ip_prefixlist_ionblob.c
        iprouting_cmn/src/route_map_ionblob.c
}
sub: iprouting_common_ionized
{
    context: os==ion
    contains:
        iprouting_cmn/src/ip_prefixlist_ionized.c
        iprouting_cmn/src/policylist_ionized.c
        iprouting_cmn/src/route_map_ionized.c
}
sub: iprouting_common_misc
{
    contains:
        iprouting_cmn/src/ip_prefixlist.c
        iprouting_cmn/src/msg_routemap.c
        iprouting_cmn/src/policylist.c
        iprouting_cmn/src/route_map.c
        iprouting_cmn/src/routetag_list.c
}
sub: iprouting_common_nbcmn
{
    contains:
        iprouting_cmn/src/route_map_nbcmn.c

```

```

}
sub: iprouting_common_nonblob
{
  contains:
    iprouting_cmn/src/ip_prefixlist_ios.c
    iprouting_cmn/src/policylist_ios.c
}
sub: iprouting_init_ios
{
  contains:
    iprouting_cmn/src/iprouting_init_ios.c
}
sub: iprouting_ionblob
{
  context: os==ion
  contains:
    iprouting_cmn/src/iprouting_init_ionblob.c
    iprouting_cmn/src/iprouting_parse_blob.c
    iprouting_cmn/src/router_af_parse_blob.c
}
sub: iprouting_ionized
{
  context: os==ion
  contains:
    iprouting_cmn/src/iprouting_init_ionized.c
    iprouting_cmn/src/route3_ionized.c
}
sub: iprouting_misc
{
  contains:
    iprouting_cmn/src/routemap_api.c
    iprouting_cmn/src/routemap_api_util.c
    iprouting_cmn/src/routemap_internal.c
}
sub: iprouting_nonblob
{
  contains:
    iprouting_cmn/src/iprib_api_svr.c
    iprouting_cmn/src/iprouting_init.c
    iprouting_cmn/src/iprouting_stats.c
    iprouting_cmn/src/protofltr.c
    iprouting_cmn/src/route1.c
    iprouting_cmn/src/route2.c
    iprouting_cmn/src/route3.c
    iprouting_cmn/src/router_af_parse.c
    iprouting_cmn/src/router_topology_parse.c
}
sub: iprouting_parser

```

```

{
  contains:
    iprouting_cmn/src/iprouting_parser_linkpoints.c
}
sub: iprouting_registry
{
  contains:
    iprouting_cmn/src/iprouting_registry.c
}
sub: ipv4_subsys
{
  contains:
    iprouting_cmn/src/ipv4_subsys.c
}
sub: lfafr_registry
{
  contains:
    iprouting_cmn/src/lfafr_registry.c
}
sub: route_map_globs
{
  contains:
    iprouting_cmn/src/route_map_globs.c
}
sub: route_map_registry
{
  contains:
    iprouting_cmn/src/route_map_registry.c
}
sub: routemap_common_blob
{
  contains:
    iprouting_cmn/src/routemap_ios_blob.c
}
sub: routemap_common_ionized
{
  context: os==ion
  contains:
    iprouting_cmn/src/route_map_http_ion.c
}
sub: routemap_common_nonblob
{
  contains:
    iprouting_cmn/src/routemap_ios.c
    iprouting_cmn/src/routemap_track_ios.c
}
sub: routemap_ios_chain
{

```

```

contains:
  iprouting_cmn/src/routemap_ios_chain.c
}
sub: routemap_lc_ipc
{
  context: os==ios
  contains:
    iprouting_cmn/src/route_map_globs.c
    iprouting_cmn/src/routemap_api.c
    iprouting_cmn/src/routemap_api_util.c
    iprouting_cmn/src/routemap_debug.c
    iprouting_cmn/src/routemap_internal.c
    iprouting_cmn/src/routemap_ios_chain.c
    iprouting_cmn/src/routetag_list.c
  }
sub: router_af_actions_registry
{
  contains:
    iprouting_cmn/src/router_af_actions_registry.c
  }
sub: router_topology_registry
{
  contains:
    iprouting_cmn/src/router_topology_registry.c
  }
sub: routing_context
{
  contains:
    iprouting_cmn/src/routing_context.c
  }
sub: routing_context_registry
{
  contains:
    iprouting_cmn/src/routing_context_registry.c
  }
}
# end of group: iprouting_cmn

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/content.lst

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

/\* \$Id\$

\* \$Source\$

\*-----

\* route1.c -- Routing Support: Common Routines

\*

\* 22-March-1986, Kirk Lougheed

```
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route1.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*
*-----
* Generic tag list support.
*
* June 2011, Karthik Subramaniam
*
* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routetag_list.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_routemap_match_policy.h,v 3.3 1995/11/28 19:50:34 widmer Exp $
* $Source: /swt/cherf.111/ios/sys/iprouting/cfg_routemap_match_policy.h,v $
*-----
* cfg_routemap_match_policy.h -- Route map match clauses for policy
* routing.
*
* Mar 1995 Tony Li
*
* Copyright (c) 1995, 2001-2002, 2007-2009, 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: cfg_routemap_match_policy.h,v $
* Revision 3.3 1995/11/28 19:50:34 widmer
* CSCdi44251: Replace Ifelse(csb->in_help)/Eval with Func
*
* Revision 3.2 1995/11/17 17:31:48 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:10 shaker
```

```

* Bump version numbers from 2.x to 3.x.
*
* Revision 2.3 1995/06/21 18:16:00 widmer
* CSCdi36227: Fix parse chain alternates
*
* Revision 2.2 1995/06/15 15:18:44 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.1 1995/06/07 21:05:32 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/cfg_routemap_match_policy.h
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* exec_debug_protofltr.h
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2009 by cisco Systems, Inc.
*
* All Rights Reserved
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_debug_protofltr.h
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* route3_parse.h
*
* Route parser functions declarations.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/route3\_parse.h

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

/\* \$Id: cfg\_int\_ip2\_routing.h,v 3.2.60.1 1996/08/12 16:03:24 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_int\_ip2\_routing.h,v \$

\*-----

\* cfg\_int\_ip2\_routing.h

\*

\* May 1994, Derek Yeung

\*

\* Copyright (c) 1993-1996, 1998-1999, 2007-2009 by cisco Systems, Inc.

\* All rights reserved.

\*

\* IP routing interface commands that must be after the encapsulation command

\* in NV order.

\*-----

\* \$Log: cfg\_int\_ip2\_routing.h,v \$

\* Revision 3.2.60.1 1996/08/12 16:03:24 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.2 1995/11/17 17:31:23 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09

12:04:31 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.2 1995/08/04 03:07:45 dstine

\* CSCdi37681: Need event logging for EIGRP

\*

\* Revision 2.1 1995/07/01 12:15:32 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:05:27 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_int\_ip2\_routing.h

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

```
/* $Id: rouource_commande_map.c,v 3.4.10.11 1996/07/09 07:35:58 dawnli Exp $
* $Source: /release/112/cvs/Xsys/iprouting/route_map.c,v $
*-----
* route_map.c -- Route map support routines.
*
* 23-January-1993
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: route_map.c,v $
* Revision 3.4.10.11 1996/07/09 07:35:58 dawnli
* CSCdi57006: route-map in configuration are stored/displayed in reverse
* order
* Branch: California_branch
*
* Revision 3.4.10.10 1996/06/28 23:19:51 hampton
* Remove gratuitous casting. [CSCdi61655]
* Branch: California_branch
*
* Revision 3.4.10.9 1996/06/05 08:27:06 rchandra
* CSCdi59547: Routemap: %SYS-4-REGEXP: NULL string parameter error
* Branch: California_branch
* - do not pass null path to route_map_match_aspath
*
* Revision 3.4.10.8 1996/06/03 23:24:12 ahh
* CSCdi59119: IP: NAT should support named access-lists
* And extended access-lists and non-contiguous address pools.
* Branch: California_branch
*
* Revision 3.4.10.7 1996/05/04 01:22:39 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.4.10.6 1996/04/16 19:02:21 rchandra
* CSCdi54830: IP features commit
* Branch: California_branch
*
* Revision 3.4.10.5 1996/04/05 03:46:40 rchandra
* CSCdi53755: BGP: flap dampening settings not flexible enough
* Branch: California_branch
* - add route-map support to set flap dampening parameters
```



\*  
 \* Revision 3.4.10.4 1996/04/02 07:29:30 dkatz  
 \* CSCdi52277: Redistribution metric problems with IGRP/EIGRP  
 \* Branch: California\_branch  
 \* Always store canonical metrics scaled for IGRP, and make EIGRP do  
 \* its own scaling internally. Get the scaling right in all  
 three  
 \* places.  
 \*

\* Revision 3.4.10.3 1996/03/28 23:59:18 rchandra  
 \* CSCdi52098: BGP: exact keyword not accepted by route-map in community  
 \* match  
 \* Branch: California\_branch  
 \* - fix my silly bug in handling exact community matching  
 \* - limit the range of valid community to 0xFFFF0000  
 \* - fix a cosmetic bug in show ip community-list  
 \*

\* Revision 3.4.10.2 1996/03/28 22:28:25 rchandra  
 \* CSCdi52880: BGP: generate error message for unsupported route-map  
 \* options  
 \* Branch: California\_branch  
 \* - generate error message when unsupported route-map option is used  
 \* - treat confederation EBGp neighbors similar to internal neighbors in  
 \* best path selection  
 \* - fix the bug in bgp\_compare\_med, so that during MED comparison,  
 \* confederation information is skipped properly  
 \* - confederation EBGp paths should be inserted into the IP table with  
 \* internal distance  
 \* - do not consider common-AS neighbors as confederation neighbors  
 \* - during 'clear ip bgp dampening'  
 avoid skipping paths  
 \* - undo the patch to the radix version walker  
 \*

\* Revision 3.4.10.1 1996/03/18 20:29:32 gstovall  
 \* Branch: California\_branch  
 \* Elvis has left the building. He headed out to California, and took the  
 \* port ready changes with him.  
 \*

\* Revision 3.2.26.3 1996/03/16 06:58:25 gstovall  
 \* Branch: DeadKingOnAThrone\_branch  
 \* Make the king aware of V111\_1\_3.  
 \*

\* Revision 3.2.26.2 1996/03/07 09:50:41 mdb  
 \* Branch: DeadKingOnAThrone\_branch  
 \* cisco and ANSI/POSIX libraries.  
 \*

\* Revision 3.2.26.1 1996/02/20 01:04:27 dstine  
 \* Branch: DeadKingOnAThrone\_branch

```

*   Sync from DeadKingOnAThrone_baseline_960122 to
*       DeadKingOnAThrone_baseline_960213
*
* Revision 3.4 1996/02/24 02:01:55 pst
* CSCdi49774: modularize regexp's for bgp (part 3)
*
* Revision 3.3 1996/02/01 06:06:17 hampton
* Migrate files out of the parser directory. [CSCdi47717]
* Step 2: Change all files which reference the moved parser files to
*
*   point to their new locations.
*
* Revision 3.2 1995/11/17 17:37:13 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:10:35 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.6 1995/09/25 08:31:19 tli
* CSCdi40960: ISP jumbo patch 2
*
* Revision 2.5 1995/07/06 23:12:39 rchandra
* CSCdi36759: BGP : Add conditional per neighbor default generation
* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
*
* Revision 2.4 1995/06/23 14:26:05 widmer
* CSCdi36318: multiple route-map commands are not accepted
* Fix route-map command NV generation
*
* Revision 2.3 1995/06/15 15:18:52 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.2 1995/06/08 08:59:19 tli
* CSCdi35274: route-map test-1 crashes IOS
* - If a route map does not set any routing information, it should be
*   equivalent to not having policy routed the packet.
* - "match length" clauses
*   were having their flag stepped on because the
*   flag update routine didn't know about the clause.
*
* Revision 2.1 1995/06/07 21:10:53 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map.c

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

/\*-----

\* router\_af\_parse.h

\*

\* Route Address Family parser functions declarations.

\*

\* May 2002, Victor Kamensky

\*

\* Copyright (c) 2002, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

/\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/router\_af\_parse.h

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

/\* \$Id\$

\* \$Source\$

/\*-----

\* Registry for IP FRR infrastructure

\*

\* July 6, 2010 Ahmed Bashandy

\*

\* Copyright (c) 2001-2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.

\* All rights reserved.

/\*-----

\* \$Log\$

/\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/lfafrr\_registry.h

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

/\* \$Id\$

\* \$Source\$

/\*-----

\* cfg\_route\_map.h

\*

\* Enter route-map subcommand mode

\*

\* Copyright (c) 1992-1996, 2001-2002, 2007-2010, 2017 by cisco Systems, Inc.

\* All rights reserved.

/\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_route\_map.h

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

/\* \$Id\$

\* \$Source\$

\*-----

\* exec\_show\_ip\_extcommunity-list.h

\*

\* April 2000, Rex Fernando

\*

\* Copyright (c) 2000, 2002-2003, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/exec\_show\_ip\_policylist.h

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

/\* \$Id: cfg\_routemap\_set\_ip\_policy.h,v 3.3.52.1 1996/06/18 19:06:39 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_routemap\_set\_ip\_policy.h,v \$

\*-----

\* cfg\_routemap\_set\_ip\_policy.h -- IP policy specific route map clauses

\*

\* Mar 1995 Tony Li

\*

\* Copyright (c) 1995-1998, 2000, 2002, 2004, 2007-2009 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_routemap\_set\_ip\_policy.h,v \$

\* Revision 3.3.52.1 1996/06/18 19:06:39 widmer

\* CSCdi59706: parser lets you set tos/precedence bits forever (input

\* loop)

\* Branch: California\_branch

\*

\* Revision 3.3 1995/11/28 19:50:38 widmer

\* CSCdi44251: Replace Ifelse(csb->in\_help)/Eval with Func

\*

\* Revision 3.2 1995/11/17 17:31:53 hampton

\* Remove old entries from the RCS header logs.

```

*
* Revision 3.1 1995/11/09
12:05:16 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.5 1995/08/16 01:01:15 tli
* CSCdi38512: Policy: TOS and precedence long help says match instead of
* set
*
* Revision 2.4 1995/07/12 07:19:09 tli
* CSCdi36426: Policy routing will not disable on an interface
* - Policy routed packets were creating fastswitching cache entries.
* That's not till _next_ release.
* - Add counters to record packet and byte count on a per route map entry
* basis.
* - Marketing identified a catastrophic deficiency. Implemented "set ip
* tos" and "set ip precedence" to cover this deficiency.
*
* Revision 2.3 1995/06/21 18:16:02 widmer
* CSCdi36227: Fix parse chain alternates
*
* Revision 2.2 1995/06/15 15:18:47 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.1 1995/06/07 21:05:39 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
*
$Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/cfg_routemap_set_ip_policy.h

```

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

```

/* $Id: cfg_router_passive-interface.h,v 3.2.60.1 1996/08/12 16:03:49 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_passive-interface.h,v $
* -----
* C F G _ R O U T E R _ P A S S I V E _ I N T . H
*
* Copyright (c) 1992-1999, 2001-2010, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_passive-interface.h,v $
*-----
* $Endlog$

```

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_passive-interface.h

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

/\*

\*-----

\* routemap\_debug.c -- Routemap debugging support

\*

\* July 1998, Wilber Su

\*

\* Copyright (c) 1998, 2004, 2006-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_debug.c

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

/\*

\*-----

\* CFG\_ROUTER\_TOPO\_REDISTRIBUTE.H

\*

\* October 2004, Lisa Z Xu

\*

\* Copied from and modified based on cfg\_router\_redistribute.h.

\* Warning:

\* If you modify this file, please also check cfg\_router\_redistribute.h

\* to see if the changes apply to config-router mode as well.

\*

\* Copyright (c) 2004-2011, 2018-2021 by Cisco Systems, Inc.

\* All Rights Reserved

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_topo\_redistribute.h

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

/\*

\*-----

\* route\_map\_ionblob.c -- Route Maps support for ION Blob

\*

\* October 2001, Siva Yaragalla

\*  
\* Copyright (c) 2001-2009, 2011, 2013, 2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_ionblob.c  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* router\_af\_parse\_blob.c  
\*  
\* Address family submode command - proxy EOLs  
\*  
\* May 2002, Victor Kamensky  
\*  
\* Copyright (c) 2002-2005, 2007-2009 by cisco Systems, Inc.  
\* All Rights Reserved  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_parse\_blob.c  
No license file was found, but licenses were detected in source scan.

/\*  
\*-----  
\* topo\_aware.h - Define multi-topology awareness  
\*  
\* March 2005, Les Ginsberg  
\*  
\* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/topo\_aware.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$  
\* \$Source\$  
\*-----  
\*  
\* parser\_defs\_route\_map.h  
\*  
\* Constant definition for route-map command and associated subcommands.

```
*
* Copyright (c) 1985-1996, 1999, 2001, 2004-2005, 2007-2008, 2011, 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/parser_defs_route_map.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* Parse chains for router Address Family mode
*
* June 2002, Donnie Savage
*
* Copyright (c) 1998-2011, 2013-2014, 2016, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_af_chain.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* exec_debug_routemap.h -- Debugging for Route-map IPC
*
* July 1998, Wilber Su
*
* Copyright (c) 1998, 2001-2002, 2004-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/exec_debug_routemap.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: exec_clear_ip_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:58 enkechen Exp $
```



```

* $Source: /release/111/cvs/Xsys/ip/exec_clear_ip_prefixlist.h,v $
*-----
* exec_clear_ip_prefixlist.h
*
* July 1997, Enke Chen
*
* Copyright (c) 1995-1998, 2000-2001, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: exec_clear_ip_prefixlist.h,v $
* Revision 3.1.2.1 1997/12/17 21:36:58 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:34 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_clear_ip_prefixlist.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* iprouting_blob_undef.c -- undefined symbols from blob when
* routing subsystems are pulled out
*
* October, 2002 Phil Winterfield
*
* Copyright (c) 2001-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_blob_undef.c
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* iprouting_cmn.c
*

```

\* This file has global definitions common to blob and iprouting proceses.

\*

\* Copyright (c) 2002-2009, 2011, 2013 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_cmn.c

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

/\* \$Id: ip\_prefixlist.c,v 1.1 2011/02/02 21:47:40 vkoshi Exp vkoshi \$

\* \$Source: /view/vkoshi-

comp\_routing\_rel5.rel4\_1\_1\_19.2460.ss.comp1.port/vob/ss.comp1/routing/iprouting\_cmn/src/ip\_prefixlist.c,v \$

\*-----

\* Generic prefix list support.

\*

\* June 1997, Enke Chen

\*

\* Copyright (c) 1997-2012, 2016, 2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: ip\_prefixlist.c,v \$

\* Revision 1.1 2011/02/02 21:47:40 vkoshi

\* checkin by port\_commit

\*

\* Revision 3.1.2.4 1998/03/20 17:03:32 enkechen

\* CSCdj88889: Prefix-list: sho ip prefix-list summ does not pause

\* Branch: FIB\_branch

\*

\* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen

\* CSCdj75270: Prefix-list: optimization for downloading large lists

\* Branch: FIB\_branch

\*

\* Revision 3.1.2.2 1998/02/11 01:55:32 soma

\* Merge FIB\_L3 branch into FIB branch

\*

\* Revision 3.1.2.1.8.1 1998/01/29 00:59:02 enkechen

\* CSCdj77190: Prefix-list: mishandling of long prefix-list names

\* Branch: FIB\_L3\_branch

\*

\* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen

\* CSCdj61356: Prefix-list - facility for efficient route filtering

\* Branch: FIB\_branch

\*

\* Revision 3.1 1997/12/17 01:46:33 enkechen

\* Start with the new file.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist.c

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

/\* \$Id: cfg\_router\_redistribute.h,v 3.4.20.3 1996/08/12 16:03:50 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_redistribute.h,v \$

\*-----

\* CFG\_ROUTER\_REDISTRIBUTE.H

\* Warning:

\* If you modify this file, please also check cfg\_router\_topo\_redistribute.h

\* to see if the changes apply to config-router-topo mode as well.

\*

\* Copyright (c) 1992-2012, 2014-2015, 2018-2021 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_router\_redistribute.h,v \$

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/cfg\_router\_redistribute.h

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

/\*

\*-----

\* iprouting\_DEBUG\_FLAG\_BB.h -- Debugging flag declarations for IP routing

\*

\* May 1993, John Bashinski

\*

\* Copyright (c) 1993-2011, 2013, 2015, 2018-2020 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_debug\_flags.h

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

/\* \$Id\$

\* \$Source\$

```
*-----
* iprouting_parser.h -- IP routing parser API header file
*
* April - 2007, Selva Subramanian
*
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_parser.h
No license file was found, but licenses were detected in source scan.
```

```
# $Id$
#
#-----
#
# iprouting.startup - ION iprouting process .startup file
#
# October, 2001, Fan Kong
#
#-----
#
# Copyright (c) 2001-2002, 2004-2007 by cisco Systems, Inc.
# All rights reserved.
#
#-----
```

```
name:iprouting.iosproc
path:/sbin
feature:iprouting
level:100
envs:RLIMIT_NOFILE=65535
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting.startup
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* policylist.c - Routines to handle policy-list commands
*
* Apr. 2000, Rex Fernando
*
* Copyright (c) 2000, 2002-2011, 2016-2017, 2020 by cisco Systems, Inc.
* All rights reserved.
```

\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/policylist.c

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

/\* \$Id: ip\_routing.c,v 3.2 1995/11/17 17:34:11 hampton Exp \$

\* \$Source: /swtal/cherf.111/ios/sys/iprouting/ip\_routing.c,v \$

\*-----

\* ip\_routing.c -- Generic IP routing functions

\*

\* Mar 1995 Tony Li

\*

\* Copyright (c) 1995-1998, 2002-2008, 2010 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: ip\_routing.c,v \$

\* Revision 3.2 1995/11/17 17:34:11 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:08:05 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/06/07 21:07:03 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_routing.c

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

/\*-----

\* router\_af\_parse.c

\*

\* Route Address Family command and action definitions. Derived from

\* router\_af\_chain.c

\*

\* May 2002, Victor Kamensky

\*

\* Copyright (c) 2002-2010, 2012, 2014-2016, 2019 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_parse.c

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

/\*

\*-----

\* ip\_prefixlist\_chain.c - Parse chains for IP Prefix Lists

\*

\* August 2001, Siva Yaragalla

\*

\* Copyright (c) 2001-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_chain.c

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

/\*

\*-----

\* Registry for IP route commands in ION

\*

\* September 2001, Rashmi Shrivastava

\*

\* Copyright (c) 2001, 2003-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/internal\_inc/ion\_iprouting\_cmd\_registry.h

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

/\*-----

\* routemap\_api\_util.c -- Dynamic routemap API utility functions.

\*

\* May 2003, Tanya Shastri

\*

\* Copyright (c) 2003, 2005-2010, 2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/routemap\_api\_util.c

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

```
/* $Id$
* $Source$
*-----
* iprouting_init_ios.c -- IP Routing Init code for Native IOS only
*
* October 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ios.c
```

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

```
/* $Id$
* $Source$
*-----
* cfg_router_summary_addr.h
*
* Supports the router subcommand "summary-address". Provides IP aggregation
* configuration.
*
* Copyright (c) 1992-2004, 2007-2010, 2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*
* Longer description here.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_summary_addr.h
```

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

```
/* $Id: cfg_router_neighbor.h,v 3.3.20.1 1996/08/12 16:03:45 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_neighbor.h,v $
*-----
* C F G _ R O U T E R _ N E I G H B O R . H
```

```

*
* Copyright (c) 1992-2002, 2004-2010, 2012, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_neighbor.h,v $
* Revision 3.3.20.1 1996/08/12 16:03:45 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3 1996/02/01 23:33:57 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:32:14 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1
  1995/11/09 12:05:42 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:55 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:48 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_neighbor.h
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* exec_clear_routemap.h -- clear route-map counters
*
* Copyright (c) 1986-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_clear_routemap.h

```



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

```
/*-----  
* router_topology_parse.c - Router topology command definitions.  
*  
* Sept 2004, Mercia Zheng  
*  
* Copyright (c) 2004-2010, 2019-2020 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

`/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_topology_parse.c`  
No license file was found, but licenses were detected in source scan.

```
/* $Id: ip_prefixlist.h,v 3.1.2.3 1998/02/23 19:43:44 enkechen Exp $  
* $Source: /release/111/cvs/Xsys/ip/ip_prefixlist.h,v $  
*-----  
* Generic prefix list support.  
*  
* June 1997, Enke Chen  
*  
* Copyright (c) 1997-2008, 2010 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log: ip_prefixlist.h,v $  
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen  
* CSCdj75270: Prefix-list: optimization for downloading large lists  
* Branch: FIB_branch  
*  
* Revision 3.1.2.2 1998/02/11 01:55:34 soma  
* Merge FIB_L3 branch into FIB branch  
*  
* Revision 3.1.2.1.8.1 1998/01/29 01:02:13 enkechen  
* CSCdj77191: Reduce several chunk size parameters to save memory  
* Branch: FIB_L3_branch  
*  
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen  
* CSCdj61356: Prefix-list - facility for efficient route  
filtering  
* Branch: FIB_branch  
*  
* Revision 3.1 1997/12/17 01:46:32 enkechen  
* Start with the new file.  
*-----  
* $Endlog$
```

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/ip\_prefixlist.h  
No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* route\_map\_blob.c -- Route Map Subsystem

\*

\* Aug 2001, Siva Yaragalla

\*

\* Copyright (c) 2001-2012, 2014-2018 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_blob.c  
No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* iprouting\_parser\_linkpoints.h - iprouting parser linkpoint decls.

\*

\* April, 2005

\*

\* Copyright (c) 2005, 2007-2008, 2015 by cisco Systems, Inc.

\* All rights reserved.

\*

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_parser\_linkpoints.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_ip\_routing\_routing.h,v 3.3.46.3 1996/08/12 16:03:33 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_ip\_routing\_routing.h,v \$

\*-----

\* IP routing routing commands

\*

\* May 1993, Robert Widmer

\*

\* Copyright (c) 1993-2000, 2002-2009 by cisco Systems, Inc.

\* All rights reserved.

\*

```

*-----
* $Log: cfg_ip_routing_routing.h,v $
* Revision 3.3.46.3 1996/08/12 16:03:33 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3.46.2 1996/06/17 23:33:31 hampton
* Implement the long sought parser "default" keyword. [CSCdi60510]
* Branch: California_branch
*
* Revision 3.3.46.1 1996/04/15 21:17:41 bcole
*
CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.3 1995/12/10 00:42:36 pst
* CSCdi38750: Allow static routes with both next hop and interface
*      also add "permanent" keyword for non-flapping static routes
*
* Revision 3.2 1995/11/17 17:31:40 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:04:59 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.4 1995/10/23 18:33:19 pst
* CSCdi42608: allow IP cache ager to be shut down, make the
*      "ip cache-ager" and "ip cache-invalidate-delay"
*      commands internal only.
*
* Revision 2.3 1995/07/13 21:39:05 ahh
* CSCdi36962: UDP parsing of tacacs-ds port name broken
* Restore "tacacs-ds" as a keyword, but hide it and map it to TACACS_PORT
* for backwards compatibility.
*
* Revision 2.2 1995/07/11 21:52:08 raj
* CSCdi36510: parser doesnt accept ip forward-protocol
udp xdmcp
* (Actually the parser didn't accept *any* symbolic names in the position
* of the UDP port number; only numbers. It now uses the UDP_PORT macro
* instead.
*
* Revision 2.1 1995/07/01 12:15:42 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting

```

\*  
\* Revision 2.1 1995/06/07 22:08:34 hampton  
\* Bump version numbers from 1.x to 2.x.

\*  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_ip\_routing\_routing.h  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* router\_topology\_registry.c  
\*  
\* Router topology registry.  
\*  
\* Sept 2004, Mercia Zheng  
\*  
\* Copyright (c) 2004-2005, 2007-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/router\_topology\_registry.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$  
\* \$Source\$  
\*-----  
\* route2.c -- Routing Support: User Interface Routines  
\*  
\* 22-March-1986, Kirk Lougheed  
\*  
\* Copyright (c) 1986-2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log\$  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):  
\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/route2.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$

```
* $Source$
*-----
* IP routing parse chains
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2012, 2015-2016 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_chain.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* lfafr_registry.c
*
* July 2010, Ahmed Bashandy
*
* Copyright (c) 2001, 2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/lfafr_registry.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* ip_prefixlist_ionblob.c - IP Prefix Lists support for IONized clients
*
* January 2002, Siva Yaragalla
*
* Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_ionblob.c

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

/\*-----

\* exec\_routing\_context.h

\*

\* This file defines the routing-context command syntax.

\*

\* March 2009, Derek Yeung

\*

\* Copyright (c) 2009-2010, 2015, 2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_routing\_context.h

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

/\*

\*-----

\* cfg\_router\_topology\_exit.h - Exit from router topology sub mode.

\*

\* Sept 2004, Mercia Zheng

\*

\* Copyright (c) 2004, 2006-2009 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_topology\_exit.h

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

/\* \$Id: iprouting\_init.c,v 1.1 2003/06/13 18:30:09 dsavage Exp dsavage \$

\* \$Source: /view/dsavage-CSCdy77097-rip-V123/vob/ios.sys2/sys/iprouting/iprouting\_init.c,v \$

\*-----

\* iprouting\_init.c -- initialize IP Routing Protocol support.

\*

\* 20-August-1985, Kirk Lougheed

\*

\* Copyright (c) 1985-2012, 2016, 2018-2019 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: iprouting\_init.c,v \$

\* Revision 1.1 2003/06/13 18:30:09 dsavage

\* Initial revision

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_init.c

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

/\* \$Id\$

\* \$Source\$

\*-----

\* Address-family command; enters Address Family mode.

\*

\* Sept 1998, Bob Thomas

\*

\* Copyright (c) 1998-1999, 2001-2010, 2012, 2018 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_af.h

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

/\*

\*-----

\* cfg\_routetag\_list.h -- Route Tag List Parser Command

\*

\* June 2011, Karthik Subramaniam

\*

\* Copyright (c) 1997-2001, 2004, 2007-2008, 2011, 2013 by cisco Systems, Inc.

\* All rights reserved.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/cfg\_routetag\_list.h

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

/\* \$Id\$

\* \$Source\$

```
*-----
* protofltr.c -- Routing protocol filter manager support routines
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/protofltr.c

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

```
/*
*-----
* exec_show_routetag_list.h
*
* Copyright (c) 1993-1996, 1998, 2003-2008, 2011 by cisco Systems, Inc.
* All rights reserved.
*
* Command parsing chain for "show route-tag".
*-----
*
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/exec\_show\_routetag\_list.h

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

```
/*
*-----
* Debugging flag declarations for protocol filter manager - ION
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2008 by cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1130450046\_1615190725.52/0/iproute-254-tar/iprouting\_cmn/src/protofltr\_debug\_flags\_ion.h

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



```
/*
*-----
* ipv4_subsys.c - IPv4 Routing Startup Subsystem
*
* July 2005, Mark Schaefer
*
* Copyright (c) 2005-2010, 2013 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ipv4_subsys.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routemap_internal.c -- Internal funtions of routemap code.
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2009, 2011-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_internal.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* iprouting_parse_blob.c
*
* Parser support for IP ROUTING .
* This file implements proxy eols that call iprouting parser remote
* registries.
*
* September 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_parse_blob.c
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```

*-----
* policylist_ionized.c - Routines to handle policy-list commands for
*       IONized processes.
*
* November 2003, Siva Yaragalla
*
* Copyright (c) 2003-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist_ionized.c
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* CFG_ROUTER_OUTPUT_DELAY.H
*
* router RIP inter-frame gap subcommand
*
* Aug 1996, Dawn Li
*
* Copyright (c) 1996, 1998-1999, 2001, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_output-
delay.h

```

## 1.196 ethtool 5.8-5.el8

### 1.196.1 Available under license :

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

```

# Original Creation Date Unknown
# Copyright (c) 2018 by Cisco Systems, Inc.
# All rights reserved.

```

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/staprun          usr/bin/staprun
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/libexec/systemtap/stapio  usr/libexec/systemtap/stapio

```

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/systemtap

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

#

# Copyright (c) 2018-2020 by Cisco Systems, Inc.

# All rights reserved.

#

# This file contains all needed files related to nfs server daemon.

#

infra/systemd/nfs-mountd.service                   usr/lib/systemd/system/nfs-mountd.service

infra/systemd/nfs-server.service                   usr/lib/systemd/system/nfs-server.service

infra/systemd/proc-fs-nfsd.mount                   usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/exportfs   usr/sbin/exportfs

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.mountd   usr/sbin/rpc.mountd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.nfsd   usr/sbin/rpc.nfsd

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/rpcinfo   usr/bin/rpcinfo

(include nfs-common)

# The following kernel modules are needed when NFSV4 support is configured

# in kernel.

# nfsd.ko depend on auth\_rpcgss.ko

# auth\_rpcgss.ko depend on oid\_registry.ko

-\${PLATFORM\_SYSROOT}/usr/lib/modules/\${KERNEL\_VER}/kernel/lib/oid\_registry.ko

usr/lib/modules/\${KERNEL\_VER}/kernel/lib/oid\_registry.ko

\${PLATFORM\_SYSROOT}/usr/lib/modules/\${KERNEL\_VER}/kernel/net/sunrpc/auth\_gss/auth\_rpcgss.ko

usr/lib/modules/\${KERNEL\_VER}/kernel/net/sunrpc/auth\_gss/auth\_rpcgss.ko

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils

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

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# All rights reserved.

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/journalctl                   usr/bin/journalctl

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemctl                   usr/bin/systemctl

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-inhibit                   usr/bin/systemd-inhibit

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-notify                   usr/bin/systemd-notify

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-tmpfiles                   usr/bin/systemd-tmpfiles

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/udevadm                   usr/bin/udevadm

contrib/yocto/CGE7/journald.conf                   etc/systemd/journald.conf

infra/systemd/system.conf                   etc/systemd/system.conf

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/systemd/user.conf

```

etc/systemd/user.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/udev/udev.conf          etc/udev/udev.conf
/usr/lib/systemd/systemd                                     init
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator
usr/lib/systemd/system-generators/systemd-fstab-generator
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/basic.target
usr/lib/systemd/system/basic.target
/usr/lib/systemd/system/reboot.target                       usr/lib/systemd/system/ctrl-alt-del.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-hugepages.mount
usr/lib/systemd/system/dev-hugepages.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/dev-mqueue.mount
infra/systemd/emergency.service
usr/lib/systemd/system/emergency.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/emergency.target
usr/lib/systemd/system/emergency.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/final.target
usr/lib/systemd/system/final.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/halt.target
usr/lib/systemd/system/halt.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/kexec.target
usr/lib/systemd/system/kexec.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/local-fs-pre.target
usr/lib/systemd/system/local-fs-pre.target
infra/systemd/local-fs.target                             usr/lib/systemd/system/local-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network-online.target
usr/lib/systemd/system/network-online.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network.target
usr/lib/systemd/system/network.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/paths.target
usr/lib/systemd/system/paths.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/poweroff.target
usr/lib/systemd/system/poweroff.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/reboot.target
usr/lib/systemd/system/reboot.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/remote-fs.target
usr/lib/systemd/system/remote-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.service
usr/lib/systemd/system/rescue.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.target
usr/lib/systemd/system/rescue.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/shutdown.target
usr/lib/systemd/system/shutdown.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/slices.target
usr/lib/systemd/system/slices.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket

```

usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket  
 /usr/lib/systemd/system/systemd-udev-control.socket  
 usr/lib/systemd/system/sockets.target.requires/systemd-udev-control.socket  
 /usr/lib/systemd/system/systemd-udev-kernel.socket  
 usr/lib/systemd/system/sockets.target.requires/systemd-udev-kernel.socket  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/sys-kernel-config.mount  
 usr/lib/systemd/system/sys-kernel-config.mount  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/sys-kernel-debug.mount  
 usr/lib/systemd/system/sys-kernel-debug.mount  
 /usr/lib/systemd/system/dev-hugepages.mount  
     usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount  
 /usr/lib/systemd/system/dev-mqueue.mount  
 usr/lib/systemd/system/sysinit.target.wants/dev-mqueue.mount  
 /usr/lib/systemd/system/sys-kernel-config.mount  
 usr/lib/systemd/system/sysinit.target.wants/sys-kernel-config.mount  
 /usr/lib/systemd/system/sys-kernel-debug.mount  
 usr/lib/systemd/system/sysinit.target.wants/sys-kernel-debug.mount  
 /usr/lib/systemd/system/systemd-journal-flush.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service  
 /usr/lib/systemd/system/systemd-journald.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service  
 /usr/lib/systemd/system/systemd-modules-load.service  
     usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service  
 /usr/lib/systemd/system/systemd-sysctl.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service  
 /usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service  
 /usr/lib/systemd/system/systemd-tmpfiles-setup.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup.service  
 /usr/lib/systemd/system/systemd-udev-trigger.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-udev-trigger.service  
 /usr/lib/systemd/system/systemd-udev.service  
 usr/lib/systemd/system/sysinit.target.wants/systemd-udev.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-halt.service  
     usr/lib/systemd/system/systemd-halt.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journal-flush.service  
 usr/lib/systemd/system/systemd-journal-flush.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald-dev-log.socket  
 usr/lib/systemd/system/systemd-journald-dev-log.socket  
 infra/systemd/systemd-journald.service.d/visible.conf                      usr/lib/systemd/system/systemd-  
 journald.service.d/visible.conf  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-fsck@.service  
 usr/lib/systemd/system/systemd-fsck@.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-journald.socket  
 usr/lib/systemd/system/systemd-journald.socket  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-kexec.service  
 usr/lib/systemd/system/systemd-kexec.service  
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/systemd-modules-load.service

```

usr/lib/systemd/system/systemd-modules-load.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-poweroff.service
    usr/lib/systemd/system/systemd-poweroff.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-reboot.service
usr/lib/systemd/system/systemd-reboot.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-sysctl.service
usr/lib/systemd/system/systemd-sysctl.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup.service
usr/lib/systemd/system/systemd-tmpfiles-setup.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-udev-settle.service
usr/lib/systemd/system/systemd-udev-settle.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-udev-trigger.service
usr/lib/systemd/system/systemd-udev-trigger.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-udev-control.socket
    usr/lib/systemd/system/systemd-udev-control.socket
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-udev-kernel.socket
usr/lib/systemd/system/systemd-udev-kernel.socket
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/timers.target
usr/lib/systemd/system/timers.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/time-sync.target
usr/lib/systemd/system/time-sync.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/umount.target
usr/lib/systemd/system/umount.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd                                usr/lib/systemd/systemd
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/bin/systemd-socket-activate                    usr/bin/systemd-socket-
activate
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-bootchart
usr/lib/systemd/systemd-bootchart
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-fsck
    usr/lib/systemd/systemd-fsck
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-journald                    usr/lib/systemd/systemd-
journald
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-modules-load
usr/lib/systemd/systemd-modules-load
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-shutdown
usr/lib/systemd/systemd-shutdown
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-sysctl                    usr/lib/systemd/systemd-
sysctl
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-timedated
usr/lib/systemd/systemd-timedated
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-udev                      usr/lib/systemd/systemd-
udev
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/udev/rules.d/50-udev-default.rules
usr/lib/udev/rules.d/50-udev-default.rules
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/udev/rules.d/99-systemd.rules

```

```

usr/lib/udev/rules.d/99-systemd.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-analyze          usr/bin/systemd-analyze
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/machine.slice
usr/lib/systemd/system/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf             usr/lib/systemd/system/systemd-
journald.service.d/visible.conf

infra/systemd/sysctl/inotify-user-instances.conf                  etc/sysctl.d/inotify-user-instances.conf

```

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/systemd-common

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(include systemd-common)

```

infra/systemd/switchroot/sysinit.target          usr/lib/systemd/system/sysinit.target
infra/systemd/switchroot/systemd-journald.service
journald.service                                usr/lib/systemd/system/systemd-
journald.service
infra/systemd/switchroot/systemd-timedated.service
timedated.service                               usr/lib/systemd/system/systemd-
timedated.service
infra/systemd/switchroot/systemd-udev.service    usr/lib/systemd/system/systemd-
udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket
usr/lib/systemd/system/systemd-journald-audit.socket

```

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/systemd-swrt

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```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/dmesg    usr/bin/dmesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/kill     usr/bin/kill
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mount    usr/bin/mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/umount   usr/bin/umount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/agetty  usr/sbin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev
usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk  usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel
usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdisk   usr/sbin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fsck    usr/sbin/fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/hwclock
usr/sbin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkswap  usr/sbin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/pivot_root

```

```

usr/sbin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sfdisk  usr/sbin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapoff  usr/sbin/swapoff
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapon  usr/sbin/swapon
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/arch  usr/bin/arch
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/cal  usr/bin/cal
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/chrt  usr/bin/chrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/col  usr/bin/col
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colcrt  usr/bin/colcrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colrm  usr/bin/colrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/column  usr/bin/column
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/flock  usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/getopt  usr/bin/getopt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hexdump  usr/bin/hexdump
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ionice  usr/bin/ionice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm
usr/bin/ipcrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcs  usr/bin/ipcs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/isosize  usr/bin/isosize
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/last  usr/bin/last
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/logger  usr/bin/logger
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/look  usr/bin/look
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/lshblk  usr/bin/lshblk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mesg  usr/bin/mesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/namei  usr/bin/namei
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/newgrp  usr/bin/newgrp
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/nsenter  usr/bin/nsenter
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rename  usr/bin/rename
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/renice  usr/bin/renice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rev  usr/bin/rev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/script  usr/bin/script
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setuid
usr/bin/setuid
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setterm  usr/bin/setterm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/taskset  usr/bin/taskset
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ul  usr/bin/ul
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/wall  usr/bin/wall
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/whereis  usr/bin/whereis
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/write  usr/bin/write
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdformat  usr/sbin/fdformat
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkfs  usr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/raw  usr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctl  usr/sbin/zramctl

```

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/util-linux

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```
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```

```
(include audit)  
(include bash)  
(include binutils)  
(include bridge-utils)  
(include busybox)  
(include bzip2)  
(include coreutils)  
(include cpio)  
(include dbus)  
(include diffutils)  
(include dosfstools)  
(include e2fsprogs)  
(include ethtool)  
(include file)  
(include filesystem)  
(include findutils)  
(include gawk)  
(include glibc)  
(include grep)  
(include gzip)  
(include initscripts)  
(include ipcalc)  
(include iproute2)  
(include iptables)  
(include iputils)  
(include kexec-tools)  
(include kmod)  
(include less)  
(include libcap)  
(include lsof)  
(include modules)  
(include ncurses)  
(include netbase)  
(include netcat)  
(include netkit-telnet)  
(include net-tools)  
(include ${NFS_VER}/nfs-utils-client)  
(include pciutils)  
(include procps)  
(include psmisc)  
(include rpcbind)  
(include sed)  
(include shadow)  
(include strace)
```

```
(include sysklogd)
(include systemtap)
(include sysvinit)
(include
tar)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all-common
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```

```
#
```

```
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```

```
# This file is to store extra files needed to support NFSV4 client.
```

```
#
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs  usr/sbin/mount.nfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs  usr/sbin/umount.nfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs4  usr/sbin/mount.nfs4
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs4  usr/sbin/umount.nfs4
```

```
contrib/initscripts/binos/etc/${NFS_VER}/nfsmount.conf  etc/nfsmount.conf
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
```

```
(include nfs-common)
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils-client
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```

```
#
```

```
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```
(include all-common)
```

```
(include systemd)
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all
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```

```
#
```

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#files related to nfs-statd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.statd           usr/sbin/rpc.statd  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sm-notify       usr/sbin/sm-notify  
infra/systemd/nfs-statd.service           usr/lib/systemd/system/nfs-statd.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/nfsstat       usr/sbin/nfsstat

#files related to nfs-idmapd.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.idmapd       usr/sbin/rpc.idmapd  
infra/systemd/var-lib-nfs-rpc\_pipefs.mount       usr/lib/systemd/system/var-lib-nfs-rpc\_pipefs.mount  
# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.  
# The directory for plugin is fix to usr/lib/libnfsidmap  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/\${LIB}/libnfsidmap/nsswitch.so   usr/lib/libnfsidmap/nsswitch.so  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/idmapd.conf  
    etc/idmapd.conf  
infra/systemd/nfs-idmapd.service           usr/lib/systemd/system/nfs-idmapd.service

contrib/initscripts/binos/etc/\${NFS\_VER}/nfs-utils.conf   etc/nfs-utils.conf

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\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-common

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ipcalc   usr/bin/ipcalc

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/ipcalc

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#

# This file contains all needed files related to nfs server daemon.

#

infra/systemd/nfs-mountd.service           usr/lib/systemd/system/nfs-mountd.service  
infra/systemd/nfs-server.service           usr/lib/systemd/system/nfs-server.service  
infra/systemd/proc-fs-nfsd.mount           usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/exportfs   usr/sbin/exportfs  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.mountd   usr/sbin/rpc.mountd  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.nfsd   usr/sbin/rpc.nfsd

```

(include nfs-common)
# The following optional kernel modules are put here to allow forwarding
# compatible when NFSV4 support is configured in kernel.
# When nfsv4 is enabled in kernel, it brings in extra dependency for
# nfsd.ko, which is needed for nfs3 verver.
#
so treat extra modules needed by nfsd.ko as optional since it depend on kernel
# configure.
#
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-utils
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(include systemd-common)

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-preset/90-systemd.preset
usr/lib/systemd/system-preset/90-systemd.preset
/usr/lib/systemd/system/tmp.mount                               usr/lib/systemd/system/local-
fs.target.requires/tmp.mount
infra/systemd/sysinit.target                                   usr/lib/systemd/system/sysinit.target
infra/systemd/cpld-symlink.service                             usr/lib/systemd/system/cpld-symlink.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/systemd-journald.service
infra/systemd/systemd-journald.service.d/visible.conf         usr/lib/systemd/system/systemd-
journald.service.d/visible.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-timedated.service
usr/lib/systemd/system/systemd-timedated.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev.service
usr/lib/systemd/system/systemd-udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/tmp.mount
usr/lib/systemd/system/tmp.mount

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemd
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#

```

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(include all-common)

(include systemd-swrt)

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/rpc.statd          usr/sbin/rpc.statd  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sm-notify          usr/sbin/sm-notify  
infra/systemd/nfs-statd.service                  usr/lib/systemd/system/nfs-statd.service  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/nfsstat          usr/sbin/nfsstat

contrib/initscripts/binos/etc/\${NFS\_VER}/nfs-utils.conf    etc/nfs-utils.conf

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/iptables-tar/linux-system/nfsv3/nfs-common

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#

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#

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#

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ping          usr/bin/ping  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/tracepath      usr/bin/tracepath  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/in.tftpd-hpa    usr/bin/tftpd

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/iptables-tar/linux-system/iputils

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#

# May 2018, Victor Kamensky

#

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#

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auditd          usr/sbin/auditd  
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/audispd          usr/sbin/audispd

|   |                   |
|---|-------------------|
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/autrace  | usr/sbin/autrace  |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/aureport | usr/sbin/aureport |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auditctl | usr/sbin/auditctl |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/ausearch | usr/sbin/ausearch |

|  |                                  |
|--|----------------------------------|
| contrib/initscripts/binos/etc/audit/auditd.conf            | etc/audit/auditd.conf            |
| contrib/initscripts/binos/etc/audisp/audispd.conf          | etc/audisp/audispd.conf          |
| contrib/initscripts/binos/etc/audit/audit.rules            | etc/audit/audit.rules            |
| contrib/initscripts/binos/etc/audisp/plugins.d/syslog.conf | etc/audisp/plugins.d/syslog.conf |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/default/auditd     | etc/default/auditd               |
| linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/libaudit.conf      | etc/libaudit.conf                |

Found in path(s):

\* /opt/cola/permits/1130449912\_1615191941.58/0/iptables-tar/linux-system/audit

## 1.197 cryptography 3.3.1

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# 1.198 gdbm 1.18.1

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## 1.202 gobject-introspection 1.60.2

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[This is the first released version of the library GPL. It is  
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The reason we have a separate public license for some libraries is that

they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary

General Public License

treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification

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

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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## 1.205 pluggy 0.13.0

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## 1.206 importlib-metadata 0.23

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# 1.207 boost NA

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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////

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
```

The header ``<boost/mp11/mpl.hpp>``, when included, defines the necessary support infrastructure for ``mp_list`` and ``std::tuple``

to be valid link:../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple` by including `<boost/mp11/mpl_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11's one.

<!DOCTYPE html>

<html>

<head></head>

<body>

<h3>

Copyright Test

</h3>

<p class="copyright">

1963, 1964, 1965 Jane Doe

</p>

<p class="copyright">

2018 Joe Blow, John Coe

</p>

<p class="copyright">

1977, 1985 Someone else

</p>

</body>

</html>

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



```
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
```

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Email local part: Philip.Hazel  
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Any executables

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

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

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or  
(at your option) any later version.

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

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

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

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

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

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

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

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```
LGPL
LGPL
LGPL
```

## 1.210 libtasn 4.13-3.el8

### 1.210.1 Available under license :

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Version 2.1, February 1999

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in

non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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<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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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

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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.

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## TERMS AND CONDITIONS

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

The

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## 1.213 kerberos 1.18.2-8.el8

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cmd/krb5/kadmin/server/ipropl_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_canon_name.c
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lib/libgss/g_export_name.c
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lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
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lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
```

lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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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  
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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

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

```
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## 1.221 python-setuptools 47.1.0

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```

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### ASN.1 library for Python

```
=====
```

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```

#### Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

#### What is ASN.1

```
-----
```

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

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

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting

discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>> \_

or `FlatBuffers` <<https://google.github.io/flatbuffers/>> \_, for example.

Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

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

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

#### ASN.1 applications

-----

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

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

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source

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

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

## Documentation

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```

[/pyasn1/contents](#)

## Use case

-----

```
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```

[/example-use-case](#)

## Download & Install

-----

```
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```

[/download](#)

## Changes

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

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[/changelog](#)

## License

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The PyASN1 software is distributed under 2-clause BSD License.

```
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```

```
/license
```

Getting help

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Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_`  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_`  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_`  
mailing list archive.

Books on ASN.1

-----

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

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_` by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_` by Prof John Larmouth

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

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

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

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

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

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ASN.1 library for Python

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[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)  
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/  
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[![GitHub license](https://img.shields.io/badge/license-BSD-  
blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

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

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

## Features

-----

- \*  
Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

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

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

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)  
by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling

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

How to use pyasn1

-----

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

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

Could be expressed in pyasn1 like this:

```
``python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house',
            Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
``
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

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

```
>>> str(record)
Record:
id=123
room=321
>>>
'''
```

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

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

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

```
'''python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
'''
```

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

```
'''python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
```



```
{'id': 123, 'room': 321, 'house': 0}
...

```

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

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

```

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

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

How to get pyasn1

-----

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

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

If

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

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Found in path(s):

\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/LICENSE.rst

## 1.224 oauthlib 1.0.3

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## 1.225 psutil 2.0.0

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## 1.226 python3-asn1crypto 1.0.1

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## 1.227 pathlib 2.3.4

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- \* /opt/cola/permits/1156545751\_1619205468.21/0/pathlib2-2-3-4-1-tar-gz/pathlib2-2.3.4/pathlib2/\_\_init\_\_.py
- \* /opt/cola/permits/1156545751\_1619205468.21/0/pathlib2-2-3-4-1-tar-gz/pathlib2-2.3.4/tests/test\_pathlib2.py
- \* /opt/cola/permits/1156545751\_1619205468.21/0/pathlib2-2-3-4-1-tar-gz/pathlib2-2.3.4/setup.py

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\* /opt/cola/permits/1156545751\_1619205468.21/0/pathlib2-2-3-4-1-tar-gz/pathlib2-2.3.4/LICENSE.rst

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Metadata-Version: 1.1

Name: pathlib2

Version: 2.3.4

Summary: Object-oriented filesystem paths

Home-page: <https://github.com/mcmtroffaes/pathlib2>

Author: Matthias C. M. Troffaes

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

License: MIT

Description: The `old pathlib <<https://bitbucket.org/pitrou/pathlib>>`\_ module on bitbucket is in bugfix-only mode. The goal of pathlib2 is to provide a backport of `standard pathlib <<http://docs.python.org/dev/library/pathlib.html>>`\_ module which tracks the standard library module, so all the newest features of the standard pathlib can be used also on older Python versions.

Download

-----

Standalone releases are available on PyPI:

<http://pypi.python.org/pypi/pathlib2/>

Development

-----

The main development takes place in the Python standard library:

see

the `Python developer's guide <<http://docs.python.org/devguide/>>`\_.

In particular, new features should be submitted to the

`Python bug tracker <<http://bugs.python.org/>>`\_.

Issues that occur in this backport, but that do not occur not in the

standard Python pathlib module can be submitted on

the `pathlib2 bug tracker <<https://github.com/mcmtrroffaes/pathlib2/issues>>`\_.

## Documentation

-----

Refer to the

`standard pathlib <<http://docs.python.org/dev/library/pathlib.html>>`\_

documentation.

## Known Issues

-----

For historic reasons, pathlib2 still uses bytes to represent file paths internally.

Unfortunately, on Windows with Python 2.7, the file system encoder (`mcbcs`)

has only poor support for non-ascii characters,

and can silently replace non-ascii characters without warning.

For example,

``u".encode(sys.getfilesystemencoding())`` results in ```????```

which is obviously completely useless.

Therefore, on Windows with Python 2.7, until this problem is fixed upstream,

unfortunately you cannot rely on pathlib2 to support the full unicode range for filenames.

See `issue #56 <<https://github.com/mcmtrroffaes/pathlib2/issues/56>>`\_ for more details.

.. |travis| image:: <https://travis-ci.org/mcmtrroffaes/pathlib2.png?branch=develop>

:target: <https://travis-ci.org/mcmtrroffaes/pathlib2>

:alt: travis-ci

.. |appveyor| image:: <https://ci.appveyor.com/api/projects/status/baddx3rpet2wyi2c?svg=true>

:target: <https://ci.appveyor.com/project/mcmtrroffaes/pathlib2>

:alt: appveyor

.. |codecov| image:: <https://codecov.io/gh/mcmtrroffaes/pathlib2/branch/develop/graph/badge.svg>

:target: <https://codecov.io/gh/mcmtrroffaes/pathlib2>

:alt: codecov

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable  
Classifier: Intended Audience :: Developers  
Classifier: License :: OSI Approved :: MIT License  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Topic :: Software Development :: Libraries  
Classifier: Topic :: System :: Filesystems

Found in path(s):

\* /opt/cola/permits/1156545751\_1619205468.21/0/pathlib2-2-3-4-1-tar-gz/pathlib2-2.3.4/pathlib2.egg-info/PKG-INFO

\* /opt/cola/permits/1156545751\_1619205468.21/0/pathlib2-2-3-4-1-tar-gz/pathlib2-2.3.4/PKG-INFO

## 1.228 pyang 2.2.1

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## 1.229 python-setuptools 41.6.0

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## 1.230 pypellchecker 0.5.4

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## 1.231 pretend 1.0.9



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Found in path(s):

```
* /opt/cola/permits/1156545735_1619205465.85/0/alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/LICENSE.rst
```

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```
from setuptools import setup
```

```
with open("README.rst") as f:
```

```
    readme = f.read()
```

```
setup(
```

```
    version="1.0.9",
```

```
    name="pretend",
```

```
    description="A library for stubbing in Python",
```

```
    long_description=readme,
```

```
author="Alex Gaynor",
author_email="alex.gaynor@gmail.com",
py_modules=["pretend"],
url="https://github.com/alex/pretend",
license="BSD",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Topic :: Software Development :: Testing",
    "Programming Language :: Python :: 2.6",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3.2",
    "Programming Language :: Python :: 3.3",
    "Programming Language :: Python :: 3.4",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
]
)

Found in path(s):
* /opt/cola/permits/1156545735_1619205465.85/0/alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/setup.py
```

## 1.232 urllib3 1.25.8

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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/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test

coverage

\* Thomas Kluyver <thomas@kluyver.me.uk>

\* Python 3 support

\* brandon-rhodes <<http://rhodesmill.org/brandon>>

\* Design review, bugfixes, test coverage.

\* studer <theo.studer@gmail.com>

\* IPv6 url support and test coverage

- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  - \* Support for explicitly closing pooled connections
  
- \* hartator <hartator@gmail.com>
  - \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
  - \* Support for TLS SNI
  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
  - \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
  - \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
  - \* Correct six.moves conflict
  - \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
  - \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield  
<<https://lukasa.co.uk/about/>>
  - \* Stream method for Response objects.
  - \* Return native strings in header values.
  - \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
  - \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  - \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  - \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
  - \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
  - \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  - \* Support for separate connect and request timeouts

- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture

- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* 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@gmail.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.
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.233 python-certifi 2019.11.28

### 1.233.1 Available under license :

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

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

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

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

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

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

Just configure this file as the SSLCACertificateFile.#

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

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

## 1.234 cffi 1.14.4

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## 1.235 python-pip 20.1.1

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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

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| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

|       | from  |      |     | compatible? (1) |
|-------|-------|------|-----|-----------------|
| 2.5   | 2.4   | 2006 | PSF | yes             |
| 2.5.1 | 2.5   | 2007 | PSF | yes             |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes             |
| 2.5.3 | 2.5.2 | 2008 | PSF |                 |
|       | yes   |      |     |                 |
| 2.6   | 2.5   | 2008 | PSF | yes             |
| 2.6.1 | 2.6   | 2008 | PSF | yes             |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes             |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes             |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes             |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes             |
| 3.0   | 2.6   | 2008 | PSF | yes             |
| 3.0.1 | 3.0   | 2009 | PSF | yes             |
| 3.1   | 3.0.1 | 2009 | PSF | yes             |
| 3.1.1 | 3.1   | 2009 | PSF | yes             |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes             |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes             |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes             |
| 3.2   | 3.1   | 2011 | PSF | yes             |
| 3.2.1 | 3.2   | 2011 | PSF | yes             |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes             |
| 3.3   | 3.2   |      |     |                 |
| 2012  | PSF   | yes  |     |                 |

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- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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Python was created in the early 1990s by Guido van Rossum at Stichting  
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In 1995, Guido continued his work on Python at the Corporation for  
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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  
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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 2.7            | 2.6          | 2010      | PSF        | yes                 |

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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
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| 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 |
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| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
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| 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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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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

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

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\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

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\* 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/@WBRSRIBZDhBFXQB6/>>
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- \* 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
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- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
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- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
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- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield  
<<http://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](mailto:jaywink@basshero.org)>
  - \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
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  - \* Support for separate connect and request timeouts
  
- \* Peter Waller <[p@pwaller.net](mailto:p@pwaller.net)>
  - \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <[nipunn1313@gmail.com](mailto:nipunn1313@gmail.com)>
  - \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<http://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](mailto:roman.bogorodskiy@ericsson.com)>
  - \* Account retries on proxy errors
  
- \* Nicolas Delaby <[nicolas.delaby@ezeep.com](mailto: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 <<http://grunseid.com>>
  - \* source\_address support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>
  - \* PEP8 Compliance and Linting
  - \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
  - \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
  - \* Google App Engine documentation
  
- \* Aaron Meurer <[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
  - \* Added `Url.url`, which unparses a `Url`
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
  - \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
  - \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
  - \* Support for using `ConnectionPool` and `PoolManager` as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
  - \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto:ttomecek@redhat.com)>
  - \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <<https://github.com/tlynn>>
  - \* Respect the warning preferences at import.
  
- \* David D. Riddle <[ddriddle@illinois.edu](mailto:ddriddle@illinois.edu)>
  - \* IPv6 bugfixes in testsuite
  
- \* Jon Wayne Parrott <[jonwayne@google.com](mailto:jonwayne@google.com)>
  - \* App Engine environment tests.
  
- \* 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
  
- \* Jesse 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>
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- \* Moinuddin Quadri <moin18@gmail.com>
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- \* 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
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.237 python-pip 9.0.3

### 1.237.1 Available under license :

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## 1.238 falcon 1.1.0

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Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/README.rst

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```

Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/structures.py

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

Metadata-Version: 1.1

Name: falcon

Version: 1.1.0

Summary: An unladen web framework for building APIs and app backends.

Home-page: <http://falconframework.org>

Author: Kurt Griffiths

Author-email: [mail@kgriffs.com](mailto:mail@kgriffs.com)

License: Apache 2.0

Description: Falcon |Docs| |Build Status| |codecov.io|

=====

Perfection is finally attained not when there is no longer anything to add, but when there is no longer anything to take away.

\*- Antoine de Saint-Exup@ry\*

Falcon is a `high-performance Python framework <<http://falconframework.org/index.html>>` \_\_ for building cloud APIs. It encourages the REST architectural style, and tries to do as little as possible while remaining `highly effective <<http://falconframework.org/index.html#Benefits>>` \_\_.

#### Quick Links

-----

\* `Read the docs <<https://falcon.readthedocs.io/en/stable>>` \_\_.  
\* `Join the discussion group <<https://groups.google.com/forum/#!forum/falconframework>>` \_\_.  
\* `Hang out in #falconframework on freenode <<https://kiwiirc.com/client/irc.freenode.net/?#falconframework>>` \_\_.

#### Design Goals

-----

**Fast.** Cloud APIs need to turn around requests quickly, and make efficient use of hardware. This is particularly important when serving many concurrent requests. Falcon is among the fastest WSGI frameworks available, processing requests `several times faster <<http://falconframework.org/#Metrics>>` \_\_ than other Python web frameworks.

**Light.** Only the essentials are included, with *six* and *mimeparse* being the only dependencies outside the standard library. We work hard to keep the code lean, making Falcon easier to test, secure, optimize, and deploy.

**Flexible.** Falcon is not opinionated when it comes to talking to databases, rendering content, authorizing requests, etc. You are free to mix and match your own favorite libraries. Falcon apps work with any WSGI server, and run great under `CPython 2.6-2.7, PyPy, Jython 2.7, and CPython 3.3-3.5 <<https://travis-ci.org/falconry/falcon>>` \_\_.

#### Features

-----

- Highly-optimized, extensible code base
- Intuitive routing via URI templates and REST-inspired resource classes
- Easy access to headers and bodies through request and response classes
- DRY request processing via middleware components and hooks

- Idiomatic HTTP error responses
- Straightforward exception handling
- Snappy unit testing through WSGI helpers and mocks
- CPython 2.6-2.7, PyPy, Jython 2.7, and CPython 3.3-3.5 support
- ~20%

speed boost when Cython is available

## Who's Using Falcon?

-----

Falcon is used around the world by a growing number of organizations, including:

- 7ideas
- Cronitor
- EMC
- Hurricane Electric
- Leadpages
- OpenStack
- Rackspace
- Shiftgig
- tempfil.es
- Opera Software

If you are using the Falcon framework for a community or commercial project, please consider adding your information to our wiki under

'Who's Using Falcon?' <<https://github.com/falconry/falcon/wiki/Who's-using-Falcon%3F>>`\_

You might also like to view our

'Add-on Catalog' <<https://github.com/falconry/falcon/wiki/Add-on-Catalog>>`,

where you can find a list of add-ons maintained by the community.

## Installation

-----

### PyPy

^^^

'PyPy' <<http://pypy.org/>>`\_

is the fastest way to run your Falcon app.

However, note that only the PyPy 2.7 compatible release is currently supported.

```
.. code:: bash
```

```
$ pip install falcon
```

### CPython



^^^^^^

Falcon also fully supports

`CPython <<https://www.python.org/downloads/>>`\_\_ 2.6-3.5.

A universal wheel is available on PyPI for the the Falcon framework.

Installing it is as simple as:

```
.. code:: bash
```

```
$ pip install falcon
```

Installing the wheel is a great way to get up and running with Falcon quickly in a development environment, but for an extra speed boost when deploying your application in production, Falcon can compile itself with Cython.

The following commands tell pip to install Cython, and then to invoke Falcon's ``setup.py``, which will in turn detect the presence of

Cython

and then compile (AKA cythonize) the Falcon framework with the system's default C compiler.

```
.. code:: bash
```

```
$ pip install cython
```

```
$ pip install --no-binary :all: falcon
```

**\*\*Installing on OS X\*\***

Xcode Command Line Tools are required to compile Cython. Install them with this command:

```
.. code:: bash
```

```
$ xcode-select --install
```

The Clang compiler treats unrecognized command-line options as errors; this can cause problems under Python 2.6, for example:

```
.. code:: bash
```

```
clang: error: unknown argument: '-mno-fused-madd' [-Wunused-command-line-argument-hard-error-in-future]
```

You might also see warnings about unused functions. You can work around these issues by setting additional Clang C compiler flags as follows:

```
.. code:: bash
```

```
$ export CFLAGS="-Qunused-arguments -Wno-unused-function"
```

#### Dependencies

```
^^^^^^^^^^^^^^
```

Falcon depends on `six` and `python-mimeparse`. `python-mimeparse` is a better-maintained fork of the similarly named `mimeparse` project.

Normally the correct package will be selected by Falcon's `setup.py`.

However, if you are using an alternate strategy to manage dependencies, please take care to install the correct package in order to avoid errors.

#### WSGI Server

```
-----
```

Falcon speaks WSGI, and so in order to serve a Falcon app, you will need a WSGI server. Gunicorn and uWSGI are some of the more popular ones out there, but anything that can load a WSGI app will do.

```
.. code:: bash
```

```
$ pip install [gunicorn|uwsgi]
```

#### Source Code

```
-----
```

Falcon lives on GitHub <<https://github.com/falconry/falcon>>, making the

code easy to browse, download, fork, etc. Pull requests are always welcome! Also, please remember to star the project if it makes you happy. :)

Once you have cloned the repo or downloaded a tarball from GitHub, you can install Falcon like this:

```
.. code:: bash
```

```
$ cd falcon
```

```
$ pip install .
```

Or, if you want to edit the code, first fork the main repo, clone the fork to your desktop, and then run the following to install it using symbolic linking, so that when you change your code, the changes will be automatically available to your app without having to reinstall the package:

```
.. code:: bash
```

```
$ cd falcon
$ pip install -e .
```

You can manually test changes to the Falcon framework by switching to the directory of the cloned repo and then running pytest:

```
.. code:: bash

$ cd falcon
$ pip install -r tools/test-requirements
$ pytest tests
```

Or, to run the default set of tests:

```
.. code:: bash

$ pip install tox && tox
```

See also the `tox.ini` <<https://github.com/falconry/falcon/blob/master/tox.ini>> file for a full list of available environments.

Read the docs

-----

The docstrings in the Falcon code base are quite extensive, and we recommend keeping a REPL running while learning the framework so that you can query the various modules and classes as you have questions.

Online docs are available at: <https://falcon.readthedocs.io>

You can build the same docs locally as follows:

```
.. code:: bash

$ pip install tox && tox -e docs
```

Once the docs have been built, you can view them by opening the following index page in your browser. On OS X it's as simple as::

```
$ open docs/_build/html/index.html
```

Or on Linux:

```
$ xdg-open docs/_build/html/index.html
```

## Getting started

-----

Here is a simple, contrived example showing how to create a Falcon-based API.

```
.. code:: python
```

```
# things.py

# Let's get this party started!
import falcon

# Falcon follows the REST architectural style, meaning (among
# other things) that you think in terms of resources and state
# transitions, which map to HTTP verbs.
class ThingsResource(object):
    def on_get(self, req, resp):
        """Handles GET requests"""
        resp.status = falcon.HTTP_200 # This is the default status
        resp.body
= ('\nTwo things awe me most, the starry sky '
   '\n    'above me and the moral law within me.\n'
   '\n'
   '    ~ Immanuel Kant\n\n')

# falcon.API instances are callable WSGI apps
app = falcon.API()

# Resources are represented by long-lived class instances
things = ThingsResource()

# things will handle all requests to the '/things' URL path
app.add_route('/things', things)
```

You can run the above example using any WSGI server, such as uWSGI or Gunicorn. For example:

```
.. code:: bash
```

```
$ pip install gunicorn
$ gunicorn things:app
```

Then, in another terminal:

```
.. code:: bash
```

```
$ curl localhost:8000/things
```

A more complex example

-----

Here is a more involved example that demonstrates reading headers and query parameters, handling errors, and working with request and response bodies.

```
.. code:: python
```

```
import json
import logging
import uuid
from wsgiref import simple_server
```

```
import falcon
import requests
```

```
class StorageEngine(object):
```

```
    def get_things(self, marker, limit):
        return [{'id': str(uuid.uuid4()), 'color': 'green'}]
```

```
    def add_thing(self, thing):
        thing['id'] = str(uuid.uuid4())
        return thing
```

```
class StorageError(Exception):
```

```
    @staticmethod
    def handle(ex, req, resp, params):
        description = ('Sorry, couldn\'t write your thing to the '
                      'database.
```

It worked on my box.')

```
        raise falcon.HTTPError(falcon.HTTP_725,
                               'Database Error',
                               description)
```

```
class SinkAdapter(object):
```

```
    engines = {
        'ddg': 'https://duckduckgo.com',
        'y': 'https://search.yahoo.com/search',
```

```

}

def __call__(self, req, resp, engine):
    url = self.engines[engine]
    params = {'q': req.get_param('q', True)}
    result = requests.get(url, params=params)

    resp.status = str(result.status_code) + ' ' + result.reason
    resp.content_type = result.headers['content-type']
    resp.body = result.text

class AuthMiddleware(object):

    def process_request(self, req, resp):
        token = req.get_header('Authorization')
        account_id = req.get_header('Account-ID')

        challenges = ["Token type=\"Fernet\""]

        if token is None:
            description = ('Please provide an auth token '
                           'as part of the request.')

            raise falcon.HTTPUnauthorized('Auth token required',
   description,
   challenges,
   href='http://docs.example.com/auth')

        if not self._token_is_valid(token, account_id):
            description = ('The provided auth token is not valid. '
                           'Please request a new token and try again.')

            raise falcon.HTTPUnauthorized('Authentication
required',
   description,
   challenges,
   href='http://docs.example.com/auth')

        def _token_is_valid(self, token, account_id):
            return True # Suuuuuure it's valid...

class RequireJSON(object):

    def process_request(self, req, resp):
        if not req.client_accepts_json:
            raise falcon.HTTPNotAcceptable(

```

```

        'This API only supports responses encoded as JSON.',
        href='http://docs.examples.com/api/json')

    if req.method in ('POST', 'PUT'):
        if 'application/json' not in req.content_type:
            raise falcon.HTTPUnsupportedMediaType(
                'This API only supports
requests encoded as JSON.',
                href='http://docs.examples.com/api/json')

class JSONTranslator(object):

    def process_request(self, req, resp):
        # req.stream corresponds to the WSGI wsgi.input environ variable,
        # and allows you to read bytes from the request body.
        #
        # See also: PEP 3333
        if req.content_length in (None, 0):
            # Nothing to do
            return

        body = req.stream.read()
        if not body:
            raise falcon.HTTPBadRequest('Empty request body',
                'A valid JSON document is required.')

        try:
            req.context['doc'] = json.loads(body.decode('utf-8'))

        except (ValueError, UnicodeDecodeError):
            raise falcon.HTTPError(falcon.HTTP_753,
                'Malformed JSON',
                'Could not decode the request body. The '
                'JSON was incorrect or not encoded as '
                'UTF-8.')

    def process_response(self, req, resp, resource):
        if 'result' not in req.context:
            return

        resp.body = json.dumps(req.context['result'])

    def max_body(limit):

    def hook(req, resp, resource, params):
        length = req.content_length

```

```

if length is not None and length > limit:
    msg = ('The size of the request is too large. The body must not '
          'exceed ' + str(limit) + ' bytes in length.')

    raise falcon.HTTPRequestEntityTooLarge(
        'Request body is too large', msg)

return hook

```

```

class ThingsResource(object):

    def __init__(self, db):
        self.db = db
        self.logger = logging.getLogger('thingsapp.' + __name__)

    def on_get(self, req, resp, user_id):
        marker = req.get_param('marker') or ''
        limit = req.get_param_as_int('limit') or 50

        try:
            result = self.db.get_things(marker, limit)
        except Exception as ex:
            self.logger.error(ex)

        description = ('Aliens have attacked our base! We will '
                      'be back as soon as we fight them off. '
                      'We appreciate your patience.')

        raise falcon.HTTPServiceUnavailable(
            'Service Outage',
            description,
            30)

        # An alternative way of doing DRY serialization would be to
        # create a custom class that inherits from falcon.Request. This
        # class could, for example, have an additional 'doc' property
        # that would serialize to JSON under the covers.
        req.context['result'] = result

        resp.set_header('Powered-By', 'Falcon')
        resp.status = falcon.HTTP_200

    @falcon.before(max_body(64 * 1024))
    def on_post(self, req, resp, user_id):
        try:
            doc = req.context['doc']
        except KeyError:

```



```

        raise falcon.HTTPBadRequest(
'Missing thing',
    'A thing must be submitted in the request body.')

    proper_thing = self.db.add_thing(doc)

    resp.status = falcon.HTTP_201
    resp.location = '/%s/things/%s' % (user_id, proper_thing['id'])

# Configure your WSGI server to load "things.app" (app is a WSGI callable)
app = falcon.API(middleware=[
    AuthMiddleware(),
    RequireJSON(),
    JSONTranslator(),
])

db = StorageEngine()
things = ThingsResource(db)
app.add_route('/{user_id}/things', things)

# If a responder ever raised an instance of StorageError, pass control to
# the given handler.
app.add_error_handler(StorageError, StorageError.handle)

# Proxy some things to another service; this example shows how you might

# send parts of an API off to a legacy system that hasn't been upgraded
# yet, or perhaps is a single cluster that all data centers have to share.
sink = SinkAdapter()
app.add_sink(sink, r'/search/(?P<engine>ddg|y)\Z')

# Useful for debugging problems in your API; works with pdb.set_trace(). You
# can also use Gunicorn to host your app. Gunicorn can be configured to
# auto-restart workers when it detects a code change, and it also works
# with pdb.
if __name__ == '__main__':
    httpd = simple_server.make_server('127.0.0.1', 8000, app)
    httpd.serve_forever()

```

## Community

-----

The Falcon community maintains a discussion group that you can use to share your ideas and ask questions about the framework. To join the discussion, please visit <https://groups.google.com/d/forum/falconframework>.

Per our

``Code of Conduct <https://github.com/falconry/falcon/blob/master/CODEOFCONDUCT.md>``\_, we expect everyone who participates in community discussions to act professionally, and lead by example in encouraging constructive discussions. Each individual in the community is responsible for creating a positive, constructive, and productive culture.

We also hang out in

``#falconframework <https://kiwiirc.com/client/irc.freenode.net/?#falconframework>`` on freenode, where everyone is always welcome to ask questions and share ideas.

Contributing

-----

Kurt Griffiths (kgriffs) is the creator and current maintainer of the Falcon framework, with the generous help of a number of stylish and talented contributors.

Pull requests are always welcome. We use the GitHub issue tracker to organize our work, but you do not need to open a new issue before submitting a PR.

Before submitting a pull request, please ensure you have added/updated the appropriate tests (and that all existing tests still pass with your changes), and that your coding style follows PEP 8 and doesn't cause pyflakes to complain.

Commit messages should be formatted using ``AngularJS conventions <http://goo.gl/QpbS7>``\_\_.

Comments follow ``Google's style guide <https://google.github.io/styleguide/pyguide.html?showone=Comments#Comments>``\_\_, with the additional requirement of prefixing inline comments using your GitHub nick and an appropriate prefix:

- TODO(riker): Damage report!
- NOTE(riker): Well, that's certainly good to know.
- PERF(riker): Travel time to the nearest starbase?
- APPSEC(riker): In all trust, there is the possibility for betrayal.

See also: ``CONTRIBUTING.md <https://github.com/falconry/falcon/blob/master/CONTRIBUTING.md>``\_\_

Legal

-----

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```
.. |Docs| image:: https://readthedocs.org/projects/falcon/badge/?version=stable
   :target: https://falcon.readthedocs.io/en/stable/?badge=stable
   :alt: Falcon web framework docs
.. |Runner| image:: https://a248.e.akamai.net/assets.github.com/images/icons/emoji/runner.png
   :width: 20
   :height: 20
.. |Build Status| image:: https://travis-ci.org/falconry/falcon.svg
   :target: https://travis-ci.org/falconry/falcon
.. |codecov.io| image:: http://codecov.io/github/falconry/falcon/coverage.svg?branch=master
   :target: http://codecov.io/github/falconry/falcon?branch=master
```

Keywords: wsgi web api framework rest http cloud

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Natural Language :: English

Classifier:

Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: POSIX

Classifier: Topic :: Internet :: WWW/HTTP :: WSGI

Classifier: Topic :: Software Development :: Libraries :: Application Frameworks

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Programming Language :: Python :: Implementation :: Jython

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/PKG-INFO

\*

/opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon.egg-info/PKG-INFO

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# <http://www.apache.org/licenses/LICENSE-2.0>

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# used here under the terms of the Apache License, Version 2.0.

Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/helpers.py

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Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/resource.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/bench.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http\_error.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/responders.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/api.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/stats.py

\*

/opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/misc.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/client.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request\_helpers.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response\_helpers.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/redirects.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/\_\_init\_\_.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/print\_routes.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/errors.py

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/claims.py

```

*
/opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/hooks.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/__init__.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-
1.1.0/falcon/bench/queues/messages.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/uri.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/base.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/tools/build.sh
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/status_codes.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/queues.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/version.py
*
/opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/bench.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api_helpers.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/__init__.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http_status.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/compiled.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/util.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/srmock.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/test_case.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/create.py

```

## 1.239 pyudev 0.21.0

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src/lxml/isoschematron/resources/xsl/RNG2Schtrn.xsl and  
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## 1.241 ply 3.11

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# PLY (Python Lex-Yacc)                      Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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## Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.  
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

## How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
```

```
import ply.yacc as yacc
```

Alternatively, you can copy just the files `lex.py` and `yacc.py` individually and use them as modules. For example:

```
import lex
import yacc
```

The file `setup.py` can be used to install `ply` using `distutils`.

The file `doc/ply.html` contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

#### Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

#### Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----  
# calc.py  
#  
# A simple calculator with variables.  
# -----  
  
tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
    )  
  
# Tokens  
  
t_PLUS = r'\+'  
t_MINUS = r'\-'  
t_TIMES = r'\*'  
t_DIVIDE = r'\/'  
t_EQUALS = r'='  
t_LPAREN = r'\('  
t_RPAREN = r'\)'  
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'  
  
def t_NUMBER(t):
```

```

    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    """expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression"""
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

```

```

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN
expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

```

## Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave



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## 1.242 python-requests 2.18.4

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c

lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/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  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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## 1.251 lvm2 1.02.175-

## 0.4.20201222gitb84a992.e18

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## 1.257 ndg-httpsclient 0.5.1-4.ph4

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## 1.258 pycparser 2.20-1.ph4

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pycparser -- A C parser in Python

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PLY (Python Lex-Yacc)                      Version 3.10

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This is a list of people who have contributed to pycparser by supplying patches, opening issues, or generally helping out, before the project moved to Github.

For more recent contributions, check out the "Contributors" page of the pycparser Github project.

The list is sorted in increasing alphabetic order by first name.

- \* Andreas Klckner
- \* Andrew de los Reyes
- \* Benoit Pradelle
- \* Dov Feldstern
- \* Even Wiik Thomassen
- \* Greg Smith
- \* Jaroslav Franek
- \* Li Xuan Ji
- \* Mateusz Czaplinski
- \* Paolo Di Maio
- \* Rory Yorke
- \* Rubin
- \* Scott Tsai
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## 1.259 paramiko 2.7.2-1.ph4

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Any

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## 1.260 python-certifi 2020.04.05.1

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

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

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

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: <http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
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Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$  
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## 1.261 python-certifi 2018.01.18

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: <http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
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# 1.262 pam 1.3.1-14.el8

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```

```
<signature of Ty Coon>, 1 April 1989
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## 1.266 libtasn 1.2

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```
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## 1.267 pytest 0.0.0

### 1.267.1 Available under license :

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

```
from setuptools import setup
```



```
setup(
    name='pygments_pytest',
    description='A pygments lexer for pytest output.',
    url='https://github.com/asottile/pygments-pytest',
    version='0.0.0',
    author='Anthony Sottile',
    author_email='asottile@umich.edu',
    classifiers=[
        'License :: OSI Approved :: MIT License',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
    ],
    install_requires=['pygments'],
    py_modules=['pygments_pytest'],
    entry_points={'pygments.lexers': ['pytest=pygments_pytest:PytestLexer']},
)
```

Found in path(s):

\* /opt/cola/permits/1161008168\_1636522430.12/0/pygments-pytest-0-0-0-tar-gz/pygments\_pytest-0.0.0/setup.py

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Metadata-Version: 1.1

Name: pygments\_pytest

Version: 0.0.0

Summary: A pygments lexer for pytest output.

Home-page: <https://github.com/asottile/pygments-pytest>

Author: Anthony Sottile

Author-email: [asottile@umich.edu](mailto:asottile@umich.edu)

License: UNKNOWN

Description: UNKNOWN

Platform: UNKNOWN

Classifier: License :: OSI Approved :: MIT License

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

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Metadata-Version: 1.1

Name: pygments-pytest  
Version: 0.0.0  
Summary: A pygments lexer for pytest output.  
Home-page: <https://github.com/asottile/pygments-pytest>  
Author: Anthony Sottile  
Author-email: [asottile@umich.edu](mailto:asottile@umich.edu)  
License: UNKNOWN  
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Classifier: Programming Language :: Python :: 3.6  
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\* /opt/cola/permits/1161008168\_1636522430.12/0/pygments-pytest-0-0-0-tar-gz/pygments\_pytest-0.0.0/pygments\_pytest.egg-info/PKG-INFO

## 1.268 tdb 1.43

### 1.268.1 Available under license :

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Version 3, 29 June 2007

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An interactive user interface displays "Appropriate Legal Notices"

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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(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,

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

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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

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

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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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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.

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

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

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## 1.279 yajl 2.0.1

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

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

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ncclient

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## 1.290 webencodings 0.5.1

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python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`  
<<http://encoding.spec.whatwg.org/>>` \_.

- \* Latest documentation: <http://packages.python.org/webencodings/>
- \* Source code and issue tracker:  
<https://github.com/gsnedders/python-webencodings>
- \* PyPI releases: <http://pypi.python.org/pypi/webencodings>
- \* License: BSD
- \* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually

aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has  
encoding labels and BOM detection,  
but the actual implementation for encoders and decoders is Python's.

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst
```

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```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```
VERSION = re.search("VERSION = '([^\']+)"', io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()
```

```
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language
```

```

:: Python',
  'Programming Language :: Python :: 2',
  'Programming Language :: Python :: 2.6',
  'Programming Language :: Python :: 2.7',
  'Programming Language :: Python :: 3',
  'Programming Language :: Python :: 3.3',
  'Programming Language :: Python :: 3.4',
  'Programming Language :: Python :: 3.5',
  'Programming Language :: Python :: 3.6',
  'Programming Language :: Python :: Implementation :: CPython',
  'Programming Language :: Python :: Implementation :: PyPy',
  'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
```

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"""

webencodings.mklabels

~~~~~

Regenerate the webencodings.labels module.

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"""

```
import json
```

```
try:
```

```
    from urllib import urlopen
```

```
except ImportError:
```

```
    from urllib.request import urlopen
```

```
def assert_lower(string):
```

```
    assert string == string.lower()
```

```
    return string
```

```
def generate(url):
```

```
    parts = ["\
```

"""

webencodings.labels

~~~~~

Map encoding labels to their name.

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"""

# XXX Do not edit!

# This file is automatically generated by mklabels.py

```
LABELS = {
    ""
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        ' %s:%s %s,%n' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}')
    return ".join(parts)
```

```
if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))
```

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/\_\_init\_\_.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-

0.5.1/webencodings/x\_user\_defined.py

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: [me@gsnedders.com](mailto:me@gsnedders.com)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`  
<<http://encoding.spec.whatwg.org/>>`\_.

- \* Latest documentation: <http://packages.python.org/webencodings/>
- \* Source code and issue tracker:  
<https://github.com/gsnedders/python-webencodings>
- \* PyPI releases: <http://pypi.python.org/pypi/webencodings>
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In order to be compatible with legacy web content  
when interpreting something like ``Content-Type: text/html; charset=latin1``,  
tools need to use a particular set

of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually  
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence  
over any other encoding declaration.

The Encoding standard defines all such details so that implementations do  
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,  
but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

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Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python



:: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

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## 1.291 pysocks 1.7.1

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## 1.293 pep517 0.8.2

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## 1.294 colorama 0.4.3

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Version: 21.12

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\* /opt/cola/permits/1403936596\_1661910591.6366453/0/example-21-12-dist-info-  
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## 1.302 fdisk 2.34.0

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Ty Coon, President of Vice
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```
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@var{one line to give the program's name and a brief idea of what it does.}
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(C) @var{year} @var{name of author}
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```
@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY;
for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
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```

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## 1.308 libuser 0.62-23.el8

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

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

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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!  
This package was debianized by Jean Pierre LeJacq  
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt  
<martin@piware.de> was the package's maintainer up to version  
2.7.19-1. The current maintainer is Jan Dittberner

<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,  
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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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.  
=20  
=20mike

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  
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> change until it was mentioned in the latest notes.  
>=20  
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> 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  
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>>> much other than cleaning up the packaging and patches and a small  
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>>> additional code, so whatever licensing y'all come up with is fine  
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> timeframe.

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> 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.

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> 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 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct  
2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status:  
RO  
Content-Length: 585  
Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk

>

> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that

> email

> in the repository and clean up the repository/tarballs? I have all the

> original discussion, but something succinct and self contained

> would be

> ideal.

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

Happy now? :-)

-a

-----  
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  
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=20

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Nathan Neulinger EMail: nneul@um...

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

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> [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

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>=20

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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

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> 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

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> additional code, so whatever licensing y'all come up with is fine

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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  
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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:

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Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

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

-----

From  
alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21  
  
>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umn.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

## 1.316 ima-evm-utils 1.1-5.el8

### 1.316.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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

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## 1.317 findutils 4.6.0-20.el8

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

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to

control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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

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

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

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

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

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

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

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software

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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.

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  
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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  
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library". The executable is therefore  
covered by this License.

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may  
distribute the object code for the work under the terms of  
Section 6.

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

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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.

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

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

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

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

```
This library is free software; you can redistribute it and/or  
modify it under the terms of the GNU Lesser General Public  
License as published by the Free Software Foundation; either  
version 2.1 of the License, or (at your option) any later version.
```

```
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```

```
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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!

# 1.324 libgpg-error 1.31-1.el8

## 1.324.1 Available under license :

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Version 2, June 1991

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.333 diffutils 3.6-6.el8

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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