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1.1 libtomcrypt 1.17

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```
# /*  
# * 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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1.4 libtommath 0.42.0

1.4.1 Available under license :

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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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1.7 unbound 1.4.22

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1.8 findutils 4.6.0

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1.10 zlib 1.2.3

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

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*/

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1.11 diffutils 3.7

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1.12 libxslt 1.1.33

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1.13 pcre 8.43

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1.14 gzip 1.10

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```
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1.15 sqlite 3.27.0

1.16 bzip2 1.0.8

1.17 iptables 1.8.3

1.18 gawk 5.0.1

1.18.1 Available under license :

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Version 2, June 1991

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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.

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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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(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

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This option is useful when you wish to copy part of the code of the

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding

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

- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.20 zlib 1.2.8

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version 1.2.11, January 15th, 2017`

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1.24 e2fsprogs 1.43

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

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

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*/

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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Theodore Ts'o
23-June-2007

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities

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

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This 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 package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.25 zlib 1.2.5

1.25.1 Available under license :

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

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

*/

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1.26 parted 3.2

1.26.1 Available under license :

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1.28 json-c 0.13.1

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1.29 lua-cjson 2.1.0

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1.30 net-tools 1.60

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1.31 gmp 6.1.2

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1.34 ncurses 6.1

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1.35 alpine-keys 2.1-r2

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The End

1.37 grep 3.3

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```
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```

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```
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```


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1.41 libxml 2.9.9

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1.42 gpt-fdisk 1.0.4

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1.43 apk-tools 2.10.4-r3

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```

Found in path(s):

* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_io.h

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```
/* url.c - Alpine Package Keeper (APK)
*
```

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*/

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* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/url.c

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 */

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 *
 * \$FreeBSD: common.h,v 1.30 2007/12/18 11:03:07 des Exp \$
 */

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```

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*
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*/

```

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```
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```

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Found in path(s):

* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/stats.c

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/* ver.c - Alpine Package Keeper (APK)

*
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*/

Found in path(s):

* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/ver.c

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/* md5.h - Compute MD5 checksum of files or strings according to the

* definition of MD5 in RFC 1321 from April 1992.
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*/

Found in path(s):

* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/md5.h

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

```
/* policy.c - Alpine Package Keeper (APK)
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```

Found in path(s):

```
* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/policy.c
```

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

```
/* manifest.c - Alpine Package Keeper (APK)
*
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*/
```

Found in path(s):

```
* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/manifest.c
```

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```
/* apk_package.h - Alpine Package Keeper (APK)
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```

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```
* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_package.h
```

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```
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* $FreeBSD: common.c,v 1.53 2007/12/19 00:26:36 des Exp $
*/

```

Found in path(s):

```
* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/common.c
```

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

```
/* blob.c - Alpine Package Keeper (APK)
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```

Found in path(s):

```
* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/blob.c
```

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```

/* io.c - Alpine Package Keeper (APK)
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```

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```
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```

Found in path(s):

```

* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/http.c

```

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```

/* package.c - Alpine Package Keeper (APK)
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```

Found in path(s):

* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/package.c

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/* apk_print.h - Alpine Package Keeper (APK)

*

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/* apk_blob.h - Alpine Package Keeper (APK)

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/* apk_solver_data.h - Alpine Package Keeper (APK)

*

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```
/* verify.c - Alpine Package Keeper (APK)
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```

Found in path(s):

* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/verify.c

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```
/* gunzip.c - Alpine Package Keeper (APK)
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Found in path(s):

* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/gunzip.c

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```
/* common.c - Alpine Package Keeper (APK)
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/* apk_solver.h - Alpine Package Keeper (APK)
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/* apk_provider_data.h - Alpine Package Keeper (APK)

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* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_provider_data.h

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/* solver.c - Alpine Package Keeper (APK)

* Up- and down-propagating, forwarding checking, deductive dependency solver.
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* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/cache.c

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/* dot.c - Alpine Package Keeper (APK)

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/* apk_archive.c - Alpine Package Keeper (APK)

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* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_archive.h

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/* database.c - Alpine Package Keeper (APK)

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/* commit.c - Alpine Package Keeper (APK)

* Apply solver calculated changes to database.

*

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/* hash.c - Alpine Package Keeper (APK)

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/* implemented as luaL_typerror until lua 5.1, dropped in 5.2

* (C) 1994-2012 Lua.org, PUC-Rio. MIT license

*/

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```

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```
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* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/print.c
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/* apk_applet.h - Alpine Package Keeper (APK)

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* /apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_applet.h

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/* upgrade.c - Alpine Package Keeper (APK)

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```
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```

/* apk_database.h - Alpine Package Keeper (APK)
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```

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*
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```
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```
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```
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*
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The

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1.51 libpcap 1.9.1

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1.52 musl 1.1.24-r0

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1.53 alpine-baselayout 3.2.0-r3

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1.57 busybox 1.31.1-r9

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jseward@bzip.org

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```
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1.61 erlang-otp 9.3

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[zlib]

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

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

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

*/

[dialyzer]

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[edoc, syntax_tools]

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[eldap]

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1.62 libyaml 0.2.2

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1.63 cffi 1.14.0

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1.64 lz4 1.9.2

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: *

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1.65 elfutils 0.178

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Version 3, 29 June 2007

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1.66 netcat 0.7.1

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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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	Year	Owner	GPL-
	from			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			

Footnotes:

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

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

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1.73 libn13 3.5.0

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1.74 binutils 2.32.0

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1.75 glib 2.60.7

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Version 2.1, February 1999

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1.76 cryptsetup 2.2.1

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src/bsd_getopt.c

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include/bsd/timeconv.h

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man/errc.3bsd

man/explicit_bzero.3bsd

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man/fgetwln.3bsd

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src/closefrom.c
src/getentropy_aix.c
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Version 3, 29 June 2007

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gevent/libuv/_corecffi_source.c
gevent/libuv/_corecffi_cdef.c

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

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1.85 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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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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1.87 iputils 20190709

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1.88 libssh2 1.8.2

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1.89 pkix-ssh 11.6

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```
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*
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```

Found in path(s):

* /pkix-tar/pkix/pkixpath.c

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```
/* $Id$
* $Source$
*-----
* pkixpath_header.h
```

```

*
* October 2005, Bob Stuercke
*
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*-----
* $Log$
*-----
* $Endlog$
*/

```

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1.90 openssh 7.9-p1

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- *

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- *

- * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

- * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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Full
text of gpl-2.0.txt:

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```
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name of author
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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
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```

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

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1.93 tftp-hpa 5.2

1.93.1 Available under license :

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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):

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec

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* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in

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.\" *- nroff *- ----- *

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* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c

*

/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c

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

Found in path(s):

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in

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```
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*
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* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
```

* ----- */

Found in path(s):

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h

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*/

Found in path(s):

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/extern.h

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h

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```

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```

Found in path(s):

```

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

```

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```

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*
* ----- */

```

Found in path(s):

```

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h

```

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```

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*
* ----- */

```

Found in path(s):

```

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c

```

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```

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- */

Found

in path(s):

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c

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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 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):

* /tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec.in

1.94 idna 2.9

1.94.1 Available under license :

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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):

* /kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/setup.py

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1.95 iso8601 0.1.12

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1.96 toml 0.10.0

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1.97 bcrypt 3.1.4

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*

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*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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1.106 coreutils 8.31

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```
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1.108 util-linux 2.34.0

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NR START END SECTORS SIZE NAME UUID

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

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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Julian Seward, jseward@acm.org
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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1.123 pcre 8.44

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1.124 kmod 25-16.el8

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.125 iproute 5.9.0-1.el8

1.125.1 Available under license :

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):

* /iproute-254-tar/iprouting_cmn/src/cfg_routemap_set.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):

* /iproute-254-tar/iprouting_cmn/src/protofltr_debug_flags.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):
* /iproute-254-tar/iprouting_cmn/src/iprouting_init_blob.c
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):
* /iproute-254-tar/iprouting_cmn/src/route_map_ionized.c
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):

* /iproute-254-tar/iprouting_cmn/src/routemap_api_util.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):

* /iproute-254-tar/iprouting_cmn/src/cfg_router_af.h

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

/* \$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.

* All rights reserved.

*-----

* \$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):

```

* /iproute-254-tar/iprouting_cmn/src/iprouting_actions.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):

```

* /iproute-254-tar/iprouting_cmn/src/ip_stats.c
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):

* /iproute-254-tar/iprouting_cmn/src/iprouting_blob_undef.c
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):
* /iproute-254-tar/iprouting_cmn/src/cfg_routetag_list.h
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):
* /iproute-254-tar/iprouting_cmn/src/iprouting_parse_blob.c
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):

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_af_exit.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

*

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* 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):

* /iproute-254-tar/iprouting_cmn/src/cfg_ip_prefixlist.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):

* /iproute-254-tar/iprouting_cmn/include/iprouting_debug.h

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):

* /iproute-254-tar/iprouting_cmn/include/router_topology_parse.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.win-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):

* /iproute-254-tar/iprouting_cmn/test/iproutingcmn_router_cmd.sesut

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):

* /iproute-254-tar/iprouting_cmn/src/ion_iprouting_cmd_registry.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):

* /iproute-254-tar/iprouting_cmn/src/policylist_ios.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):

```
* /iproute-254-tar/iprouting_cmn/src/lfafr_registry.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):

```
* /iproute-254-tar/iprouting_cmn/src/iprouting_chain.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 $
*-----
* C F G _ R O U T E R _ R E D I S T R I B U T E . 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):

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_redistribute.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):

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_af_mode.h

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):

* /iproute-254-tar/iprouting_cmn/src/iprouting_init_ionized.c

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):

```

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_network.h
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):

```

* /iproute-254-tar/iprouting_cmn/internal_inc/router_af_parse.h

```

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

```
/* $Id$
* $Source$
* -----
* C F G _ R O U T E R _ O U T P U T - D E L A Y . 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):

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_output-delay.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):

* /iproute-254-tar/iprouting_cmn/src/routemap_track_ios.c

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):

* /iproute-254-tar/iprouting_cmn/src/cfg_routemap_exit.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):

* /iproute-254-tar/iprouting_cmn/include/protofltr_public.h

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):

```

* /iproute-254-tar/iprouting_cmn/include/router_af_actions_registry.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):

```

* /iproute-254-tar/iprouting_cmn/src/msg_routemap.c
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):

```
* /iproute-254-tar/iprouting_cmn/src/cfg_ip_routing_routing.h
```

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):

```
* /iproute-254-tar/iprouting_cmn/include/cfg_routemap_set_policy.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):

- * /iproute-254-tar/iprouting_cmn/src/router_topology_chain.c

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):

- * /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_timers.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):

* /iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_vnet_routing.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):

* /iproute-254-tar/iprouting_cmn/src/protofltr_debug.c

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):

```
* /iproute-254-tar/iprouting_cmn/src/exec_debug_ip_routing.h
```

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):

```
* /iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ionblob.c
```

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):

```
* /iproute-254-tar/iprouting_cmn/internal_inc/route_map_ion.h
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):

```
* /iproute-254-tar/iprouting_cmn/src/routing_context_chain.c
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):

```
* /iproute-254-tar/iprouting_cmn/src/ip_prefixlist_private.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):

* /iproute-254-tar/iprouting_cmn/src/route_map_blob.c

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):

* /iproute-254-tar/iprouting_cmn/src/routemap_ios_chain.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):

```

* /iproute-254-tar/iprouting_cmn/include/ip_prefixlist.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):

```

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_metric.h
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):

```

* /iproute-254-tar/iprouting_cmn/src/router_af_actions_registry.c
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):

```

* /iproute-254-tar/iprouting_cmn/src/cfg_router_bfd.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):

* /iproute-254-tar/iprouting_cmn/src/exec_show_ip_prefixlist.h

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):

* /iproute-254-tar/iprouting_cmn/internal_inc/ion_iprouting_cmd_registry.h

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):

* /iproute-254-tar/iprouting_cmn/src/iprouting_registry.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):

```

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_distance.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):

```

* /iproute-254-tar/iprouting_cmn/include/router_af_actions.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):

* /iproute-254-tar/iprouting_cmn/src/exec_debug_protofltr.h

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):

```
* /iproute-254-tar/iprouting_cmn/src/cfg_router.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):

```
* /iproute-254-tar/iprouting_cmn/include/ip_stats.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):

```
* /iproute-254-tar/iprouting_cmn/src/route_map_nbcmn.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):

* /iproute-254-tar/iprouting_cmn/src/cfg_router_topology.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):

* /iproute-254-tar/iprouting_cmn/include/route_map.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):

* /iproute-254-tar/iprouting_cmn/include/exec_debug_routemapapi.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):

* /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: 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):

```

* /iproute-254-tar/iprouting_cmn/src/ip_prefixlist.c
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):

```

* /iproute-254-tar/iprouting_cmn/src/routemap_ios.c
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):

```

* /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):

```

* /iproute-254-tar/iprouting_cmn/src/route3_blob.c
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):

```

* /iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ios.c
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):

```
* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_distribute.h
```

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):

* /iproute-254-tar/iprouting_cmn/src/exec_routing_context.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):

* /iproute-254-tar/iprouting_cmn/src/route3.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.

* All rights reserved.

*

*-----

* \$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):

* /iproute-254-tar/iprouting_cmn/src/iprouting_setup.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):
* /iproute-254-tar/iprouting_cmn/src/route_map_http_ion.c
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):
* /iproute-254-tar/iprouting_cmn/src/cfg_routemap_match_ip.h
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* 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):

* /iproute-254-tar/iprouting_cmn/include/lfafr_registry.h

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):

* /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.

```
/* $Id$
* $Source$
*-----
* 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):

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_validate.h

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

```
/*
```



```

*-----
* C F G _ R O U T E R _ T O P O _ R E D I S T R I B U T E . 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):

```

* /iproute-254-tar/iprouting_cmn/src/cfg_router_topo_redistribute.h
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):

```

* /iproute-254-tar/iprouting_cmn/src/iprouting_init_ios.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):

* /iproute-254-tar/iprouting_cmn/internal_inc/protofltr.h

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):

* /iproute-254-tar/iprouting_cmn/src/cfg_routemap_match.h

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):

* /iproute-254-tar/iprouting_cmn/src/exec_show_routetag_list.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):

* /iproute-254-tar/iprouting_cmn/src/iprouting.startup

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):

* /iproute-254-tar/iprouting_cmn/include/iprouting_registry.h

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):

* /iproute-254-tar/iprouting_cmn/src/policylist.c

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):

* /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\$

*-----

* 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):

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_flash-threshold.h

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):

* /iproute-254-tar/iprouting_cmn/internal_inc/iprouting_actions.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):

* /iproute-254-tar/iprouting_cmn/internal_inc/iprouting_commands.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):

* /iproute-254-tar/iprouting_cmn/include/iprouting_debug_flags.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):

* /iproute-254-tar/iprouting_cmn/src/cfg_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):

* /iproute-254-tar/iprouting_cmn/include/routemap_debug.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):
* /iproute-254-tar/iprouting_cmn/src/prototfltr_debug_flags_ion.h
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):
* /iproute-254-tar/iprouting_cmn/internal_inc/router_topology_registry.h
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):

```

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_maximum-paths.h
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):

```

* /iproute-254-tar/iprouting_cmn/include/exec_debug_routemap.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):

* /iproute-254-tar/iprouting_cmn/include/route.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):

* /iproute-254-tar/iprouting_cmn/include/iprouting_parser_macros.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):

* /iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ionized.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):

* /iproute-254-tar/iprouting_cmn/src/routing_context.c

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):

* /iproute-254-tar/iprouting_cmn/src/router_topology_parse.c

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):

* /iproute-254-tar/iprouting_cmn/src/routemap_debug.c

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):

* /iproute-254-tar/iprouting_cmn/src/exec_show_ip_routing.h

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):

* /iproute-254-tar/iprouting_cmn/src/routemap_internal.c

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):

* /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\$

*-----

* 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):

* /iproute-254-tar/iprouting_cmn/internal_inc/exec_show_ip_policylist.h

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):

* /iproute-254-tar/iprouting_cmn/src/ip_prefixlist_chain.c

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):

* /iproute-254-tar/iprouting_cmn/include/exec_show_route-map.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):

* /iproute-254-tar/iprouting_cmn/src/route_map_ionblob.c

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):

* /iproute-254-tar/iprouting_cmn/include/routemap_track.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):

* /iproute-254-tar/iprouting_cmn/src/policylist_blob.c

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):

* /iproute-254-tar/iprouting_cmn/src/cfg_router_table-map.h

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):

* /iproute-254-tar/iprouting_cmn/include/ip_prefixlist_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):

* /iproute-254-tar/iprouting_cmn/src/ipv4_subsys.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):

* /iproute-254-tar/iprouting_cmn/include/routetag_list.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):

* /iproute-254-tar/iprouting_cmn/src/router_af_chain.c

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):

* /iproute-254-tar/iprouting_cmn/src/iprouting_debug.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):

* /iproute-254-tar/iprouting_cmn/src/iprouting_stats.c

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):

* /iproute-254-tar/iprouting_cmn/src/protofltr.c

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):

* /iproute-254-tar/iprouting_cmn/src/exec_clear_routemap.h

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):

* /iproute-254-tar/iprouting_cmn/include/iprouting_parser_linkpoints.h

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

```
#-----
# iproutingcmn_router_cmd.run-doxxygen -- Run-doxxygen 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.h"

# 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):

```
* /iproute-254-tar/iprouting_cmn/docs/iproutingcmn_router_cmd.run-doxygen
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):

```
* /iproute-254-tar/iprouting_cmn/src/routemap_api.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):

* /iproute-254-tar/iprouting_cmn/src/cfg_routemap_set_ip.h

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):

* /iproute-254-tar/iprouting_cmn/src/policylist_ionized.c

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

```

/*
*-----
* 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):

* /iproute-254-tar/iprouting_cmn/include/msg_iproute.rc

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):

```
* /iproute-254-tar/iprouting_cmn/include/route_map_def.h
```

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):

```
* /iproute-254-tar/iprouting_cmn/src/route2.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):

```
* /iproute-254-tar/iprouting_cmn/src/exec_clear_ip_routing.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):

* /iproute-254-tar/iprouting_cmn/src/iprouting_init.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):

* /iproute-254-tar/iprouting_cmn/src/router_af_parse.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):

```
* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_auto_summary.h  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$  
* $Source$  
*-----  
* cfg_route_default.h  
*  
* September 2016, Yingzhen Qu  
*  
* Copyright (c) 2016 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
* /iproute-254-tar/iprouting_cmn/src/cfg_route_default.h  
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):

```
* /iproute-254-tar/iprouting_cmn/src/iprib_api_svr.c
```

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):

```

*
* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_offset.h
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):

```

* /iproute-254-tar/iprouting_cmn/src/iprouting_cmn.c
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):

```

* /iproute-254-tar/iprouting_cmn/src/route_map_registry.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):

* /iproute-254-tar/iprouting_cmn/src/route_map_globs.c

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):

* /iproute-254-tar/iprouting_cmn/src/routemap_track.c

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):

* /iproute-254-tar/iprouting_cmn/include/iprouting_common.h

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):

* /iproute-254-tar/iprouting_cmn/include/route_capability.h

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):

* /iproute-254-tar/iprouting_cmn/include/routing_context.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):

* /iproute-254-tar/iprouting_cmn/src/routing_context_registry.c

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):

* /iproute-254-tar/iprouting_cmn/include/parser_defs_router.h

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):

* /iproute-254-tar/iprouting_cmn/src/router_af_parse_blob.c

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):

* /iproute-254-tar/iprouting_cmn/src/iprouting_init_ionblob.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):

* /iproute-254-tar/iprouting_cmn/src/protofltr_debug.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):

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_neighbor.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):

/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_traffic-share.h

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

```

/* $Id$
* $Source$
*-----
* 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):

```

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_summary_addr.h

```

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):

```

* /iproute-254-tar/iprouting_cmn/src/route3_ionized.c

```

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):

```

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_input-queue.h

```

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):

* /iproute-254-tar/iprouting_cmn/src/ip_routing.c

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/lfafr_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/atrib_api_svr.c
        iprouting_cmn/src/iprouting_init.c
        iprouting_cmn/src/iprouting_stats.c
        iprouting_cmn/src/prototfltr.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):

* /iproute-254-tar/iprouting_cmn/content.lst

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):

* /iproute-254-tar/iprouting_cmn/internal_inc/route3_parse.h

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):

* /iproute-254-tar/iprouting_cmn/src/route1.c

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):

* /iproute-254-tar/iprouting_cmn/include/routemap_api.h

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):

* /iproute-254-tar/iprouting_cmn/include/topo_aware.h

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

All rights reserved.

Found in path(s):

```
* /iproute-254-tar/iprouting_cmn/include/reg/route_map_registry.reg  
* /iproute-254-tar/iprouting_cmn/include/reg/router_topology_registry.reg  
* /iproute-254-tar/iprouting_cmn/makefile  
* /iproute-254-tar/iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg  
* /iproute-254-tar/iprouting_cmn/include/reg/router_af_actions_registry.reg  
* /iproute-254-tar/iprouting_cmn/include/.signature/makefile  
* /iproute-254-tar/iprouting_cmn/include/reg/routing_context_registry.reg  
* /iproute-254-tar/iprouting_cmn/include/reg/iprouting_registry.reg  
* /iproute-254-tar/iprouting_cmn/include/reg/lfafr_registry.reg
```

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):

* /iproute-254-tar/iprouting_cmn/include/route_map_registry.h

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):

* /iproute-254-tar/iprouting_cmn/src/routetag_list.c

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

```
/* $Id$
* $Source$
* -----
* C F G _ R O U T E R _ D E F A U L T S . H
*
* Copyright (c) 1992-2011, 2013, 2015-2016, 2019 by cisco Systems, Inc.
* All Rights Reserved
* -----
* $Log$
* -----
* $Endlog$
*/
```

Found in path(s):

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_default.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):

```

* /iproute-254-tar/iprouting_cmn/src/route_map.c
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):

```

* /iproute-254-tar/iprouting_cmn/src/iprouting_parser.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):

* /iproute-254-tar/iprouting_cmn/src/router_topology_registry.c

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):

* /iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_routing.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):
* /iproute-254-tar/iprouting_cmn/src/cfg_router_topology_exit.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):
* /iproute-254-tar/iprouting_cmn/src/iprouting_parser_linkpoints.c
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):
* /iproute-254-tar/iprouting_cmn/include/routemap_internal.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):

* /iproute-254-tar/iprouting_cmn/include/routemap_debug_flags.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):

* /iproute-254-tar/iprouting_cmn/internal_inc/ip_routing.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):

```
* /iproute-254-tar/iprouting_cmn/src/cfg_router_topology_mode.h
```

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 $
```

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

```
* E X E C _ S H O W _ P R O T O C O L S . 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):

* /iproute-254-tar/iprouting_cmn/src/exec_show_protocols.h

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

*

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*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /iproute-254-tar/iprouting_cmn/include/routing_context_registry.h

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/* \$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

*

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*-----

*/

Found in path(s):

* /iproute-254-tar/iprouting_cmn/internal_inc/policylist.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

*

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```

*-----
* $Log: cfg_router_passive-interface.h,v $
*-----
* $Endlog$
*/

```

Found in path(s):

* /iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_passive-interface.h

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```

/*-----
* IP routemap test commands
*
* May 2003, Tanya Shastri
*
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* All rights reserved.
*
*-----
*/

```

Found in path(s):

* /iproute-254-tar/iprouting_cmn/src/exec_test_ip_routemap.h

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```

#
#-----
# iprouting_api.enum - IP Routing public API enum definitions
#
# August 2009, Prashant Srinivas
#
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# All rights reserved.
#-----
#

```

BEGIN IPROUTING_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):

* /iproute-254-tar/iprouting_cmn/include/enum/iprouting_api.enum

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```
/* $Id: cfg_routemap_match_policy.h,v 3.3 1995/11/28 19:50:34 widmer Exp $
* $Source: /swtal/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
*
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* -----
* $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):

* /iproute-254-tar/iprouting_cmn/include/cfg_routemap_match_policy.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):

```
* /iproute-254-tar/iprouting_cmn/src/routemap_ios_blob.c
```

1.126 libsemanage-common 2.9-4.el8

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1.127 selinux 2.9-5.el8

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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_univ.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/tagmap.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/namedtype.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/__main__.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_tag.py
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/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_opentype.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_namedval.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/native/encoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/error.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/test_debug.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/cer/test_decoder.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/ber/decoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_useful.py
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/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/native/decoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/der/encoder.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/__main__.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/cer/test_encoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/der/test_decoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/der/__main__.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/compat/__main__.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/tag.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_char.py
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/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/dateandtime.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/constraint.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/setup.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/binary.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/der/decoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/calling.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/compat/test_integer.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/useful.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/debug.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/native/test_decoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/cer/encoder.py

```

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ASN.1 library for Python

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

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

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

Features

*

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

- * Standards compliant BER/CER/DER codecs
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 2.4 up to Python 3.7

- * MT-safe
- * Contributed ASN.1 compiler [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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ASN.1 library for Python

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:maxdepth: 1

Abstract Syntax Notation One (ASN.1

<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)>) is a  
technology for exchanging structured data in a universally understood,

hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

What is ASN.1

-----

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

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

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

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

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

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

ASN.1 applications



-----

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

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

ASN.1 gotchas

-----

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

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

Documentation

-----

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

/ pyasn1/ contents
```

Use case

-----

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

/ example-use-case
```

Download & Install

-----

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

/download

## Changes

-----

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

```
..
toctree::
 :maxdepth: 1
```

/changelog

## License

-----

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

/license

## Getting help

-----

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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## 1.133 oauthlib 1.0.3

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## 1.134 psutil 2.0.0

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## 1.135 python3-asn1crypto 1.0.1

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## 1.137 pyang 2.2.1

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## 1.138 python-setuptools 41.6.0

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## 1.139 pyspellchecker 0.5.4

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## 1.140 pretend 1.0.9

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Found in path(s):

\* /alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/LICENSE.rst

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

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):
* /alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/setup.py

```

## 1.141 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@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.

- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header

regardless of case when redirecting to cross-site

- \* James Meickle <<https://permadeath.com/>>
- \* Improve handling of Retry-After header
- \* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto: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]

## 1.142 python-certifi 2019.11.28

### 1.142.1 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 \$

## 1.143 python-pip 20.1.1

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## A. HISTORY OF THE SOFTWARE

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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 that included the contextlib module.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 2.5     | 2.4          | 2006 | PSF   | yes                 |
| 2.5.1   | 2.5          | 2007 | PSF   | yes                 |
| 2.5.2   | 2.5.1        | 2008 | PSF   | yes                 |
| 2.5.3   | 2.5.2        | 2008 | PSF   | yes                 |
| 2.6     | 2.5          | 2008 | PSF   | yes                 |
| 2.6.1   | 2.6          | 2008 | PSF   | yes                 |
| 2.6.2   | 2.6.1        | 2009 | PSF   | yes                 |
| 2.6.3   | 2.6.2        | 2009 | PSF   | yes                 |
| 2.6.4   | 2.6.3        | 2009 | PSF   | yes                 |
| 2.6.5   | 2.6.4        | 2010 | PSF   | yes                 |
| 3.0     | 2.6          | 2008 | PSF   | yes                 |
| 3.0.1   | 3.0          | 2009 | PSF   | yes                 |
| 3.1     | 3.0.1        | 2009 | PSF   | yes                 |
| 3.1.1   | 3.1          | 2009 | PSF   | yes                 |
| 3.1.2   | 3.1.1        | 2010 | PSF   | yes                 |
| 3.1.3   | 3.1.2        | 2010 | PSF   | yes                 |
| 3.1.4   | 3.1.3        | 2011 | PSF   | yes                 |
| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | PSF   | yes                 |
| 3.2.2   | 3.2.1        | 2011 | PSF   | yes                 |
| 3.3     | 3.2          |      |       |                     |
| 2012    | PSF          | yes  |       |                     |

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- 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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as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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|----------------|--------------|-----------|------------|---------------------|
| 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 |
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|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

| from           |           | compatible? (1) |            |         |
|----------------|-----------|-----------------|------------|---------|
| 0.9.0 thru 1.2 |           | 1991-1995       | CWI        | yes     |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999       | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000            | CNRI       | no      |
| 2.0            | 1.6       | 2000            | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001            | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001            | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001            | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001            | PSF        | yes     |
| 2.2            | 2.1.1     | 2001            | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002            | PSF        | yes     |
| 2.1.3          |           |                 |            |         |
| 2.1.2          | 2002      | PSF             | yes        |         |
| 2.2.1          | 2.2       | 2002            | PSF        | yes     |
| 2.2.2          | 2.2.1     | 2002            | PSF        | yes     |
| 2.2.3          | 2.2.2     | 2003            | PSF        | yes     |
| 2.3            | 2.2.2     | 2002-2003       | PSF        | yes     |
| 2.3.1          | 2.3       | 2002-2003       | PSF        | yes     |
| 2.3.2          | 2.3.1     | 2002-2003       | PSF        | yes     |
| 2.3.3          | 2.3.2     | 2002-2003       | PSF        | yes     |
| 2.3.4          | 2.3.3     | 2004            | PSF        | yes     |
| 2.3.5          | 2.3.4     | 2005            | PSF        | yes     |
| 2.4            | 2.3       | 2004            | PSF        | yes     |
| 2.4.1          | 2.4       | 2005            | PSF        | yes     |
| 2.4.2          | 2.4.1     | 2005            | PSF        | yes     |
| 2.4.3          | 2.4.2     | 2006            | PSF        | yes     |
| 2.4.4          | 2.4.3     | 2006            | PSF        | yes     |
| 2.5            | 2.4       | 2006            | PSF        | yes     |
| 2.5.1          | 2.5       | 2007            | PSF        | yes     |
| 2.5.2          | 2.5.1     | 2008            | PSF        | yes     |
| 2.5.3          | 2.5.2     | 2008            | PSF        | yes     |
| 2.6            | 2.5       | 2008            | PSF        | yes     |
| 2.6.1          | 2.6       | 2008            | PSF        | yes     |
| 2.6.2          | 2.6.1     | 2009            | PSF        | yes     |
| 2.6.3          | 2.6.2     | 2009            | PSF        | yes     |
| 2.6.4          | 2.6.3     | 2009            | PSF        | yes     |
| 2.6.5          | 2.6.4     | 2010            | PSF        | yes     |
| 3.0            | 2.6       | 2008            | PSF        | yes     |
| 3.0.1          | 3.0       | 2009            | PSF        | yes     |
| 3.1            | 3.0.1     | 2009            | PSF        | yes     |
| 3.1.1          | 3.1       | 2009            | PSF        | yes     |
| 3.1.2          | 3.1       | 2010            | PSF        | yes     |
| 3.2            | 3.1       | 2010            | PSF        | yes     |

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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  
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Just configure this file as the SSLCACertificateFile.#

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## 1.144 falcon 1.1.0

### 1.144.1 Available under license :

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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-Exupéry\*

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 `*mimemagic*` 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 automagically 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 '
 '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>`_`

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-----

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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
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 :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

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\* /falcon-1-1-0-tar-gz/falcon-1.1.0/PKG-INFO

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon.egg-info/PKG-INFO

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Found in path(s):

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/resource.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/bench.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http\_error.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/responders.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/api.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/stats.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/misc.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/client.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request\_helpers.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response\_helpers.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/redirects.py

\*

/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/\_\_init\_\_.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/print\_routes.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/errors.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/claims.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/hooks.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/\_\_init\_\_.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/messages.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/uri.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/base.py

\* /falcon-1-1-0-tar-gz/falcon-1.1.0/tools/build.sh

```
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/status_codes.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/queues.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/version.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/bench.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api_helpers.py
*
/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/__init__.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http_status.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/compiled.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/util.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/srmock.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/test_case.py
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/create.py
No license file was found, but licenses were detected in source scan.
```

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Found in path(s):  

```
* /falcon-1-1-0-tar-gz/falcon-1.1.0/README.rst
```

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

```
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```

Found in path(s):  

```
* /falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/helpers.py
```

## 1.145 pyudev 0.21.0

### 1.145.1 Available under license :

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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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## 1.147 pytz 2019.2

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## 1.148 lxml 4.4.1

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## 1.149 py 1.8.0

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# 1.151 pycrypto 2.6.1

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Last updated: 2009-02-28

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=== EOF ===

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# 1.160 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.

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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
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- \* Scott Tsai
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# 1.161 paramiko 2.7.2-1.ph4

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## 1.162 python-certifi 2020.04.05.1

### 1.162.1 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 \$



# 1.163 procps 3.3.15

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# 1.164 pam 1.3.1-14.el8

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The

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# 1.179 systemd 243

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

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

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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

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

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

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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

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

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

\*/

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### 1.194.1 Available under license :

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

Metadata-Version: 2.1

Name: example

Version: 21.12

Summary: UNKNOWN

Home-page: UNKNOWN

Author: UNKNOWN

Author-email: UNKNOWN

License: Apache Software License

Platform: UNKNOWN

UNKNOWN

Found in path(s):

\* /example-21-12-dist-info-zip/inputdir/packages\_extracted/wheel/127/example-21.12.dist-info/METADATA

# 1.195 packaging 20.3

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## 1.196 fdisk 2.34.0

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