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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
# */
```

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1.4 libtommath 0.42.0

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1.6 bzip2 1.0.6

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```
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```

```
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```

```
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```

1.7 unbound 1.4.22

1.7.1 Available under license :

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1.9 libtool 2.4.6

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that

any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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Version 3, 29 June 2007

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

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

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the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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

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The

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

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section 10
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

1.12 pcre 8.42

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Written by: Philip Hazel
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1.13 glibc 2.28

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```
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```

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

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

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`

or `init_by_array(init_key, key_length)`.

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Sockets

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

`:func:`getnameinfo``, which are coded in separate source files from the WIDE

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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SipHash24

The file :file:`Python/pyhash.c` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)

djb (supercop/crypto_auth/siphash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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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
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1.17 diffutils 3.7

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1.19 sqlite 3.27.0

1.20 bzip2 1.0.8

1.21 zlib 1.2.8

1.21.1 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@zip.org madler@alumni.caltech.edu

*/

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1.22 tcl 8.3.4

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1.23 e2fsprogs 1.43

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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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That's all there is to it!

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

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

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

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

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

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

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#

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

#

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

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

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

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

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

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
```

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

```
clean::
```

```
$(RM)
```

```
-rf pic
```

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

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

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

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

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

1.24.1 Available under license :

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

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

*/

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1.25 ebtuples 2.0.10

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1.26 json-c 0.99.8

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1.27 json-c 0.13.1

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1.28 lua-cjson 2.1.0

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1.29 gmp 6.1.2

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1.30 net-tools 2.10

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1.31 alpine-keys 2.1-r2

1.32 tar 1.30

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1.39 apk-tools 2.10.4-r3

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

* Apply solver calculated changes to database.

*

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

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* $FreeBSD: fetch.c,v 1.41 2007/12/19 00:26:36 des Exp $
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```

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```

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```

```

/* apk_solver_data.h - Alpine Package Keeper (APK)
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*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_solver_data.h
```

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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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* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/common.c
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/* io.c - Alpine Package Keeper (APK)

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

*

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```

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

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

```
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```

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

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

* Up- and down-propagating, forwarding checking, deductive dependency solver.

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

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

*

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

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

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

Found in path(s):

```
* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/common.h
```

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

```
*
```

```
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```

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```

```
*
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/dot.c
```

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

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

```
*
```

```
* Copyright (C) 2005-2008 Natanael Copa <n@tanael.org>
```

```
* Copyright (C) 2008-2011 Timo Teräs <timo.teras@iki.fi>
```

```
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```
*
```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/url.c
```

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):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/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.

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

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_defines.h
```

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

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

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/list.c
```

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

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

*
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Found in path(s):

* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/hash.c
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/* apk_solver.h - Alpine Package Keeper (APK)
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Found in path(s):

* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_solver.h
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/* apk_version.h - Alpine Package Keeper (APK)
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Found in path(s):

* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_version.h
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/* database.c - Alpine Package Keeper (APK)
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* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/database.c
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/* cache.c - Alpine Package Keeper (APK)

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Found in path(s):

* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/cache.c
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/* info.c - Alpine Package Keeper (APK)

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Found in path(s):

* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/info.c
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/* apk_applet.h - Alpine Package Keeper (APK)

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* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_applet.h
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*
* \$FreeBSD: file.c,v 1.18 2007/12/14 10:26:58 des Exp \$
*/

Found in path(s):

* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/file.c
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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*
* $FreeBSD: fetch.h,v 1.26 2004/09/21 18:35:20 des Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/libfetch/fetch.h
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```

```

/* apk_package.h - Alpine Package Keeper (APK)
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* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_package.h
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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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```

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*/

Found in path(s):

* /opt/cola/permits/1006906399_1678963080.0928936/0/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.

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

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Found in path(s):

* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/del.c
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/* upgrade.c - Alpine Package Keeper (APK)

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*/

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* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/upgrade.c

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

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/index.c
```

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

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

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```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/verify.c
```

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

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/apk_print.h
```

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

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



```
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```

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/package.c
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```

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

```
*
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```

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/print.c
No license file was found, but licenses were detected in source scan.
```

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

```
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```

Found in path(s):

```
*/opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/stats.c
No license file was found, but licenses were detected in source scan.
```

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

```
*
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* Copyright (C) 2008-2017 Timo Teräs <timo.teras@iki.fi>
* Copyright (C) 2017 William Pitcock <nenolod@dereferenced.org>
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Found in path(s):

* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/manifest.c
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/* apk_archive.c - Alpine Package Keeper (APK)

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

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

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

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

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* /opt/cola/permits/1006906399_1678963080.0928936/0/apk-tools-v2-10-4-zip/apk-tools-2.10.4/src/gunzip.c

1.40 zlib 1.2.11-r3

1.40.1 Available under license :

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1.41 libtls-standalone 2.9.1-r0

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1.42 openssl 1.0.2k-19.el7

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* @version 3.0 (December 2000)

*

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

*

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

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

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1.49 pcre 10.32

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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1.50 hostname 3.20-6.el8

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1.51 libutempter 1.1.6-14.el8

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1.57 libusb 1.0.23

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1.58 libpcap 1.9.1

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1.59 musl 1.1.24-r0

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```

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```

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```

```
<signature of Ty Coon>, 1 April 1989  
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1.64 libxml2 2.9.10

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.66 popt 1.16-14.el8

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1.69 findutils 4.7.0

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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```

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

@heading TERMS AND CONDITIONS

@enumerate 0

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

An interactive user interface displays ``Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible

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

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

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

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

@enumerate a

@item

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

@item

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

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@item

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@end enumerate

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or on a volume of a storage or distribution medium, is called an
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You may convey a covered work in object code form under the terms of
sections 4 and 5, provided that you also convey the machine-readable
Corresponding Source under the terms of this License, in one of these
ways:

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@item

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

@item

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

@item

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

@item

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

the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item

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

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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

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@end smallexample

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```
@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY;
for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

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Version 3, 29 June 2007

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Upstream-Name: liblz4

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

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

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-- \$Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp \$
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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8

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-- vile: txtmode file-encoding=utf-8

1.78 grep 3.4

1.78.1 Available under license :

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Version 3, 29 June 2007

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1.80 epel-release 8-8.el8

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```
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Copyright (C) 19yy <name of author>
```

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```
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under certain conditions; type `show c' for details.
```

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

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

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1.81 godbus 5.0.3

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1.82 cpio 2.13

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section 10

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1.84 gdbm 1.18

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1.87 sed 4.8

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

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

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

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

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

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

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a) Accompany

the work with the complete corresponding

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

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

properly with a modified version of the library, if

the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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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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man/strtou.3bsd
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man/vis.3bsd
man/wcsncpy.3bsd
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src/heapsort.c
src/merge.c
src/nlist.c
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man/readpassphrase.3bsd

man/strncpy.3bsd

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src/arc4random.c

src/arc4random_linux.h

src/arc4random_openbsd.h

src/arc4random_uniform.c

src/arc4random_unix.h

src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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```
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it
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.96 nghttp2 1.33.0

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```
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.102 python 3.8.5

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

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

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

All

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

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

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of
Vice
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1.104 libidn 2.2.0

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1.105 libssh2 1.9.0

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1.107 openssh 8.3p1

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1.108 pkix-ssh 11.6

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```
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*-----
* name: pkixpath.c
*
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*/
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**
**/
```

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* /opt/cola/permits/1078111861_1615189672.12/0/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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1.110 cryptsetup 2.3.3

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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

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1.114 glibc 2.32

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```
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```

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```
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```

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

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1.116 tre 0.8.0

1.116.1 Available under license :

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1.117 fdisk 2.36.0

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BS=)d ;*!;_>KfB }&ea)F~H#@|DExb
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;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
```

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1.120 json-c 0.15

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1.121 typing-extensions 3.7.4.3

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

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

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

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

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

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

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1.122 bind 9.11.19

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

<xsl:stylesheet version="1.0"

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

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

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

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

<xsl:param name="text"/>

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

<xsl:value-of select="normalize-space(substring-before(\$text, '#10;'))"/>

```

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

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

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

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

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1.125 gnutls 3.6.14

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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For details see https://shiftright.org/papers/vector_aes/ and

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Version 3, 29 June 2007

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1.126 multdict 5.0.0

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1.131 libssh 0.9.4-2.el8

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1.132 rsyslog 8.1911.0-6.el8

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1.133 brotli 1.0.6-2.el8

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1.134 libssh 0.9.4

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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1.135 libyaml 0.2.5

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1.136 tftp-hpa 5.2

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- */

Found in path(s):

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

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

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

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

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

BuildRequires: tcp_wrappers-devel

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

%description

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

%package server

Group: System Environment/Daemons

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

Requires: xinetd

%description server

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

%prep

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

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}

mkdir -p \${RPM_BUILD_ROOT}%{_bindir}

mkdir -p \${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

mkdir -p \${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=\${RPM_BUILD_ROOT} \

SBINDIR=%{_sbindir} MANDIR=%{_mandir} \

install

install -m755 -d \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server

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

%postun server

if [\$1 = 0]; then

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

fi

```

%clean
rm -rf ${RPM_BUILD_ROOT}

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

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

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

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>

```

- Try applying HJ's patch from #65476

- * Fri Jun
21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)

- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.

- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one

- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 - update
to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)
 - added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),

- drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
 - change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).

- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
 - man pages are compressed
 - fix description and summary

- * Tue
Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server
- * Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.
- * Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.
- * Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)
- * Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)
- * Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.
- * Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root
- * Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr
- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure
- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

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

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

```

/* -*- c -*- ----- *
*
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */

```

Found in path(s):

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

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

```
.\" *- nroff *- ----- *
.\"
.\" Copyright (c) 1990, 1993, 1994
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.\"
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.\"
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.\" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\"----- */
```

Found in path(s):

```
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
```

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

```
/* ----- *
*
* Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
```

* ----- */

Found in path(s):

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

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

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

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

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

.\"

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.\" SUCH DAMAGE.

.\"

.\"----- */

Found in path(s):

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

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

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

Name: tftp

Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description

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

%package server

Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server

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

%prep

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

%build

%configure

make %{?_smp_mflags}

%install

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

make INSTALLROOT=\${RPM_BUILD_ROOT} \
SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install

install -m755 -d \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

```

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

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

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

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

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

```

- * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
 - Update to 0.32
- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
 - Fix #55789
 - Update to 0.30
- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
 - Try applying HJ's patch from #65476
- *
 - Fri Jun 21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29
- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)
- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.
- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one
- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x
- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 -
 - update to tftp-hpa-0.16
- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up 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 <mws@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>

- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>

- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>

- man pages are compressed

- fix description and summary

*

Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

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

- tftpd should truncate file when overwriting (#412)

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

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

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

- compile for 6.0.

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

- build root

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

- translations modified for de, fr, tr

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

- added check for getpwnam() failure

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

- initial build

Found in path(s):

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

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

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Found in path(s):

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

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

```
/* ----- *
*
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

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

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

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

```
/* ----- *
*
* Copyright 2001 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

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

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

```
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* The Regents of the University of California. All rights reserved.
*
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```

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* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):

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

/*
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* SUCH DAMAGE.
*/

Found

in path(s):

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

1.137 zlib 1.2.7-18.el7

1.137.1 Available under license :

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1.138 acl 2.2.53-1.el8

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1.139 ncurses 6.1-7.20180224.el8

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1.140 glib 2.64.5

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1.141 python-mimeparse 1.6.0

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1.142 pyparsing 2.4.7

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1.144 idna-ssl 1.1.0

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1.145 async-timeout 3.0.1

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1.146 pyserial 3.4

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1.148 pyprocess 0.6.0

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1.151 libusb 1.0.23-4.el8

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1.152 pam 0.1.4

1.152.1 Available under license :

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```
from setuptools import setup, find_packages
import sys, os

version = '0.1.4'

setup(name='pam',
      version=version,
      description="PAM interface using ctypes",
      long_description="""\
An interface to the Pluggable Authentication Modules (PAM) library on linux, written in pure python (using
ctypes)""",
      classifiers=["Development Status :: 3 - Alpha",
                  "Intended Audience :: Developers",
                  "License :: OSI Approved :: MIT License",
                  "Operating System :: POSIX :: Linux",
                  "Operating System :: MacOS :: MacOS X",
                  "Programming Language :: Python",
                  "Topic :: Software Development :: Libraries :: Python Modules",
                  "Topic :: System :: Systems Administration :: Authentication/Directory"
                  ],
      keywords="",
      author='Chris AtLee',
      author_email='chris@atlee.ca',
      url='http://atlee.ca/software/pam',
      download_url = "http://atlee.ca/software/pam/dist/%s"
      % version,
      license='MIT',
      py_modules=["pam"],
      zip_safe=True,
      install_requires=[],
      entry_points="""
# -*- Entry points: -*-
      """,
      )
```

Found in path(s):

* /opt/cola/permits/1119811840_1609793495.63/0/pam-0-1-4-1-tar-gz/pam-0.1.4/setup.py

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Found in path(s):

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Metadata-Version: 1.0

Name: pam

Version: 0.1.4

Summary: PAM interface using ctypes

Home-page: <http://atlee.ca/software/pam>

Author: Chris AtLee

Author-email: chris@atlee.ca

License: MIT

Download-URL: <http://atlee.ca/software/pam/dist/0.1.4>

Description: An interface to the Pluggable Authentication Modules (PAM) library on linux, written in pure python (using ctypes)

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Operating System :: POSIX :: Linux

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Programming Language :: Python

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

Classifier: Topic :: System :: Systems Administration :: Authentication/Directory

Found in path(s):

* /opt/cola/permits/1119811840_1609793495.63/0/pam-0-1-4-1-tar-gz/pam-0.1.4/pam.egg-info/PKG-INFO

*

/opt/cola/permits/1119811840_1609793495.63/0/pam-0-1-4-1-tar-gz/pam-0.1.4/PKG-INFO

1.153 iputils 20200821

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Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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

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

To protect your rights, we need to make restrictions that forbid

anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. You may copy and distribute the

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

It may happen that this requirement contradicts the license

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting

redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

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

That's all there is to it!

1.158 crypto-policies 20200713- 1.git51d1222.el8

1.158.1 Available under license :

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Preamble

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

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

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Upstream-Name: liblz4

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

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

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1.164 libmodulemd 2.9.4-2.el8

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.168 elfutils 0.180

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1.172 python-pip 9.0.3-18.el8

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```
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```

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```
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```

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

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The End

1.174 python-setuptools 39.2.0-6.el8

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1.175 curl 7.72.0

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1.176 expat 2.2.5

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1.177 sudo 1.8.29-6.el8

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

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

Ackeret, Matt
Adler, Mark
Allbery, Russ

Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.

Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbess, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren

Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
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Stier, Matthew
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Uzel, Petr
Valery, Reznic
Van Dinter, Theo
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Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

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

Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
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1.179 iconv 2.28

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Version 2, June 1991

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

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

treats it as such.

Because

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

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

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

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

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END OF TERMS AND CONDITIONS

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

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

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

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Here is a sample; alter the names:

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

That's all there is to it!

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Version 3, 29 June 2007

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

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The

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

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

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```
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```

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

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```
WEV @@ WEV[B "1
```

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 43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
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 ./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

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!"#\$%&'()*+,-
 ./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
 WEV[B "1

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1.182 curl 7.61.1

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=====

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c-ares

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zlib

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1.183 telnet 0.17-73.el8_1.1

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1.184 cpp 8.4.1-1.el8

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<signature of Ty Coon>, 1 April 1989
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1.185 util-linux 2.36.0

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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		
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That's all there is to it!

1.190 d-bus 1.12.8-12.el8

1.190.1 Available under license :

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

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

(include nfs-common)
# The following optional kernel modules are put here to allow forwarding
# compatible when NFSV4 support is configured in kernel.
# When nfsv4 is enabled in kernel, it brings in extra dependency for
# nfsd.ko, which is needed for nfs3 verver.
#
so treat extra modules needed by nfsd.ko as optional since it depend on kernel
# configure.
#
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

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

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv3/nfs-utils
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```

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

Found in path(s):

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

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

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

Found in path(s):

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

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

Found in path(s):

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

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/journalctl usr/bin/journalctl
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemctl usr/bin/systemctl
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-inhibit usr/bin/systemd-inhibit
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-notify usr/bin/systemd-notify
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/systemd-tmpfiles usr/bin/systemd-tmpfiles
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/udevadm usr/bin/udevadm
contrib/yocto/CGE7/journald.conf etc/systemd/journald.conf
infra/systemd/system.conf etc/systemd/system.conf
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/systemd/user.conf
etc/systemd/user.conf
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/etc/udev/udev.conf etc/udev/udev.conf
/usr/lib/systemd/systemd init
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator


```

usr/lib/systemd/system-generators/systemd-fstab-generator
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/basic.target
usr/lib/systemd/system/basic.target
/usr/lib/systemd/system/reboot.target                usr/lib/systemd/system/ctrl-alt-del.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-hugepages.mount
usr/lib/systemd/system/dev-hugepages.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/dev-mqueue.mount
infra/systemd/emergency.service
                usr/lib/systemd/system/emergency.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/emergency.target
usr/lib/systemd/system/emergency.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/final.target
usr/lib/systemd/system/final.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/halt.target
usr/lib/systemd/system/halt.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/kexec.target
usr/lib/systemd/system/kexec.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/local-fs-pre.target
usr/lib/systemd/system/local-fs-pre.target
infra/systemd/local-fs.target                usr/lib/systemd/system/local-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network-online.target
usr/lib/systemd/system/network-online.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network.target
                usr/lib/systemd/system/network.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/paths.target
usr/lib/systemd/system/paths.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/poweroff.target
usr/lib/systemd/system/poweroff.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/reboot.target
usr/lib/systemd/system/reboot.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/remote-fs.target
usr/lib/systemd/system/remote-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.service
usr/lib/systemd/system/rescue.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.target
usr/lib/systemd/system/rescue.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/shutdown.target
usr/lib/systemd/system/shutdown.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/slices.target
                usr/lib/systemd/system/slices.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
/usr/lib/systemd/system/systemd-udev-control.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-control.socket
/usr/lib/systemd/system/systemd-udev-control.socket

```

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

usr/lib/systemd/system/systemd-reboot.service
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-sysctl.service
usr/lib/systemd/system/systemd-sysctl.service
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup.service
usr/lib/systemd/system/systemd-tmpfiles-setup.service
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-settle.service
usr/lib/systemd/system/systemd-udev-settle.service
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-trigger.service
usr/lib/systemd/system/systemd-udev-trigger.service
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-control.socket
usr/lib/systemd/system/systemd-udev-control.socket
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/systemd-udev-kernel.socket
usr/lib/systemd/system/systemd-udev-kernel.socket
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/timers.target
usr/lib/systemd/system/timers.target
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/time-sync.target
usr/lib/systemd/system/time-sync.target
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/umount.target
usr/lib/systemd/system/umount.target
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd usr/lib/systemd/systemd
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/bin/systemd-socket-activate usr/bin/systemd-socket-activate
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-bootchart
usr/lib/systemd/systemd-bootchart
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-fsck
usr/lib/systemd/systemd-fsck
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-journald usr/lib/systemd/systemd-journald
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-modules-load
usr/lib/systemd/systemd-modules-load
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-shutdown
usr/lib/systemd/systemd-shutdown
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-sysctl usr/lib/systemd/systemd-sysctl
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-timedated
usr/lib/systemd/systemd-timedated
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/systemd-udev usr/lib/systemd/systemd-udev
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/udev/rules.d/50-udev-default.rules
usr/lib/udev/rules.d/50-udev-default.rules
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/udev/rules.d/99-systemd.rules
usr/lib/udev/rules.d/99-systemd.rules
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/bin/systemd-analyze usr/bin/systemd-analyze
linkfarm/\${SYSROOT}/\${ARCH}/\${SDK}/usr/lib/systemd/system/machine.slice
usr/lib/systemd/system/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf usr/lib/systemd/system/systemd-

journald.service.d/visible.conf

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

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

Found in path(s):

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

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#

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(include audit)

(include bash)

(include binutils)

(include bridge-utils)

(include busybox)

(include bzip2)

(include coreutils)

(include cpio)

(include dbus)

(include diffutils)

(include dosfstools)

(include e2fsprogs)

(include ethtool)

(include file)

(include filesystem)

(include findutils)

(include gawk)

(include glibc)

(include grep)

(include gzip)

(include initscripts)

(include ipcalc)

(include iproute2)

(include iptables)

(include iputils)

(include kexec-tools)

(include kmod)

(include less)

(include libcap)

(include lsof)

(include modules)

(include ncurses)

(include netbase)

(include netcat)

(include netkit-telnet)

(include net-tools)

```
(include ${NFS_VER}/nfs-utils-client)
(include pciutils)
(include procps)
(include psmisc)
(include rpcbind)
(include sed)
(include shadow)
(include strace)
(include sysklogd)
(include systemtap)
(include sysvinit)
(include
tar)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)
```

Found in path(s):

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

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```
#
```

```
# November 2018, Cisco Systems, Inc.
```

```
#
```

```
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```

```
# All rights reserved
```

```
#
```

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

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/tracepath  usr/bin/tracepath
```

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

Found in path(s):

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

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```
#
```

```
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```

```
# All rights reserved.
```

```
(include all-common)
```

```
(include systemd)
```

Found in path(s):

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

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```

#
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#files related to nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.statd      usr/sbin/rpc.statd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sm-notify      usr/sbin/sm-notify
infra/systemd/nfs-statd.service          usr/lib/systemd/system/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat        usr/sbin/nfsstat

#files related to nfs-idmapd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.idmapd     usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount      usr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.
# The directory for plugin is fix to usr/lib/libnfsidmap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/${LIB}/libnfsidmap/nsswitch.so  usr/lib/libnfsidmap/nsswitch.so
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/idmapd.conf
    etc/idmapd.conf
infra/systemd/nfs-idmapd.service              usr/lib/systemd/system/nfs-idmapd.service

contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv4/nfs-common
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#
# May 2018, Victor Kamensky
#
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#

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd        usr/sbin/auditd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/audispd        usr/sbin/audispd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/autrace        usr/sbin/autrace
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/aureport       usr/sbin/aureport
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditctl       usr/sbin/auditctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ausearch       usr/sbin/ausearch

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

```

Found in path(s):

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

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(include systemd-common)

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system-preset/90-systemd.preset

usr/lib/systemd/system-preset/90-systemd.preset

/usr/lib/systemd/system/tmp.mount

usr/lib/systemd/system/local-

fs.target.requires/tmp.mount

infra/systemd/sysinit.target

usr/lib/systemd/system/sysinit.target

infra/systemd/cpld-symlink.service

usr/lib/systemd/system/cpld-symlink.service

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

usr/lib/systemd/system/systemd-journald.service

infra/systemd/systemd-journald.service.d/visible.conf

usr/lib/systemd/system/systemd-

journald.service.d/visible.conf

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

usr/lib/systemd/system/systemd-timedated.service

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

usr/lib/systemd/system/systemd-udev.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/tmp.mount

usr/lib/systemd/system/tmp.mount

Found in path(s):

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

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#

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

#

infra/systemd/nfs-mountd.service

usr/lib/systemd/system/nfs-mountd.service

infra/systemd/nfs-server.service

usr/lib/systemd/system/nfs-server.service

infra/systemd/proc-fs-nfsd.mount

usr/lib/systemd/system/proc-fs-nfsd.mount

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

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

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

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

(include nfs-common)

The following kernel modules are needed when NFSV4 support is configured

in kernel.

```
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

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

Found in path(s):

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

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```
#
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```

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

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

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

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

Found in path(s):

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

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```
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```

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

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


Found in path(s):

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

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#

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(include all-common)

(include systemd-swrt)

Found in path(s):

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

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```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/dmesg    usr/bin/dmesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/kill      usr/bin/kill
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mount     usr/bin/mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/umount    usr/bin/umount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/agetty   usr/sbin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk   usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdisk    usr/sbin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fsck     usr/sbin/fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/hwclock  usr/sbin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkswap   usr/sbin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/pivot_root
    usr/sbin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sfdisk   usr/sbin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapoff  usr/sbin/swapoff
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapon   usr/sbin/swapon
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/arch     usr/bin/arch
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/cal      usr/bin/cal
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/chrt     usr/bin/chrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/col      usr/bin/col
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colcrt   usr/bin/colcrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colrm    usr/bin/colrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/column   usr/bin/column
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/flock    usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/getopt    usr/bin/getopt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hexdump  usr/bin/hexdump
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ionice   usr/bin/ionice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm
```

```

usr/bin/ipcrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcs    usr/bin/ipcs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/isosize  usr/bin/isosize
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/last    usr/bin/last
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/logger  usr/bin/logger
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/look    usr/bin/look
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/lshblk  usr/bin/lshblk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mesg    usr/bin/mesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/namei   usr/bin/namei
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/newgrp  usr/bin/newgrp
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/nsenter  usr/bin/nsenter
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rename  usr/bin/rename
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/renice  usr/bin/renice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rev    usr/bin/rev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/script  usr/bin/script
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setuid  usr/bin/setuid
usr/bin/setuid
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setterm  usr/bin/setterm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/taskset  usr/bin/taskset
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ul      usr/bin/ul
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/wall    usr/bin/wall
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/whereis  usr/bin/whereis
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/write   usr/bin/write
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdformat  usr/sbin/fdformat
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkfs   usr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/raw    usr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctl  usr/sbin/zramctl

```

Found in path(s):

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

1.191 libdnf 0.55.0-1.el8

1.191.1 Available under license :

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/getaddrinfo.c
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```
<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
<!--
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-->

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

<refentry>

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

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

<refnamediv>
```

```

<refname>lwres_getaddrinfo</refname>
<refname>lwres_freeaddrinfo</refname>
<refpurpose>socket address structure to host and service name</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
int
<function>lwres_getaddrinfo</function></funcdef>
<paramdef>const char *hostname</paramdef>
<paramdef>const char *servname</paramdef>
<paramdef>const struct addrinfo *hints</paramdef>
<paramdef>struct addrinfo **res</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freeaddrinfo</function></funcdef>
<paramdef>struct addrinfo *ai</paramdef>
</funcprototype>
</funcsynopsis>

```

<para>
If the operating system does not provide a
<type>struct addrinfo</type>,
the following structure is used:

```

<programlisting>
struct addrinfo {
    int      ai_flags;    /* AI_PASSIVE, AI_CANONNAME */
    int      ai_family;  /* PF_xxx */
    int      ai_socktype; /* SOCK_xxx */
    int      ai_protocol; /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
    size_t   ai_addrlen; /* length of ai_addr */
    char     *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};

```

</programlisting>
</para>

</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

<para>
<function>lwres_getaddrinfo()</function>
is used to get a list of IP addresses and port numbers for host
<parameter>hostname</parameter>
and service
<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of
<function>getaddrinfo()</function>
as
defined in RFC2133.
<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are pointers to null-terminated
strings or
<type>NULL</type>.

<parameter>hostname</parameter>
is either a host name or a numeric host address string: a dotted decimal
IPv4 address or an IPv6 address.
<parameter>servname</parameter>
is either a decimal port number or a service name as listed in
<filename>/etc/services</filename>.
</para>

<para>
<parameter>hints</parameter>
is an optional pointer to a
<type>struct addrinfo</type>.
This structure can be used to provide hints concerning the type of socket
that the caller supports or wishes to use.
The caller can supply the following structure elements in
<parameter>*hints</parameter>:

<variablelist>
<varlistentry><term><constant>ai_family</constant></term>
<listitem>
<para>The protocol family that should be used.
When
<constant>ai_family</constant>
is set to
<type>PF_UNSPEC</type>,
it means the caller will accept any protocol
family supported by the
operating system.
</para></listitem></varlistentry>
<varlistentry><term><constant>ai_socktype</constant></term>

<listitem>

<para>

denotes the type of socket —

<type>SOCK_STREAM</type>,&br/><type>SOCK_DGRAM</type>

or

<type>SOCK_RAW</type>

— that is wanted.

— that is wanted.

When

<constant>ai_socktype</constant>

is zero the caller will accept any socket type.

</para>

</listitem>

</varlistentry>

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

<listitem>

<para>

indicates which transport protocol is wanted: IPPROTO_UDP or

IPPROTO_TCP.

If

<constant>ai_protocol</constant>

is zero the caller will accept any protocol.

</para>

</listitem>

</varlistentry>

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

<listitem>

<para>

Flag bits.

If the

<type>AI_CANONNAME</type>

bit is set, a successful call to

<function>lwres_getaddrinfo</function>

will return a null-terminated string containing the canonical name

of the specified hostname in

<constant>ai_canonname</constant>

of

the first

<type>addrinfo</type>

structure returned.

Setting the

<type>AI_PASSIVE</type>

bit indicates that the returned socket address structure is intended

for used in a call to

<citrefentry>

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

</citrefentry>.

In this case, if the hostname argument is a
<type>NULL</type>
pointer, then the IP address portion of the socket
address structure will be set to
<type>INADDR_ANY</type>
for an IPv4 address or
<type>IN6ADDR_ANY_INIT</type>
for an IPv6 address.

</para>

<para>

When

<constant>ai_flags</constant>

does not set the

<type>AI_PASSIVE</type>

bit, the returned socket address structure will be ready

for use in a call to

<citrefentry>

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

</manvolnum>

</citrefentry>

for a connection-oriented protocol or

<citrefentry>

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

</citrefentry>,

<citrefentry>

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

</citrefentry>,

or

<citrefentry>

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

</manvolnum>

</citrefentry>

if

a connectionless protocol was chosen.

The IP address portion of the socket address structure will be

set to the loopback address if

<parameter>hostname</parameter>

is a

<type>NULL</type>

pointer and

<type>AI_PASSIVE</type>

is not set in

<constant>ai_flags</constant>.

</para>

<para>

If

<constant>ai_flags</constant>

is set to

<type>AI_NUMERICHOST</type>

it indicates that

<parameter>hostname</parameter>

should be treated as a numeric string defining an IPv4 or IPv6 address

and no name resolution should be attempted.

</para>

</listitem>

</varlistentry>

</variablelist>

</para>

<para>

All other elements of the <type>struct addrinfo</type> passed

via <parameter>hints</parameter> must be zero.

</para>

<para>

A <parameter>hints</parameter> of <type>NULL</type> is treated as if

the caller provided a <type>struct addrinfo</type> initialized to zero

with <constant>ai_family</constant> set

to

<constant>PF_UNSPEC</constant>.

</para>

<para>

After a successful call to

<function>lwres_getaddrinfo()</function>,

<parameter>*res</parameter>

is a pointer to a linked list of one or more

<type>addrinfo</type>

structures.

Each

<type>struct addrinfo</type>

in this list can be processed by following

the

<constant>ai_next</constant>

pointer, until a

<type>NULL</type>

pointer is encountered.

The three members

<constant>ai_family</constant>,

<constant>ai_socktype</constant>,

and

<constant>ai_protocol</constant>

in each

returned

<type>addrinfo</type>
structure contain the corresponding arguments for a call to
<citrefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>.

For each
<type>addrinfo</type>
structure in the list, the
<constant>ai_addr</constant>
member points to a filled-in socket address structure of length
<constant>ai_addrlen</constant>.

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

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_getaddrinfo()</function>
returns zero on success or one of the error codes listed in
<citrefentry>
<refentrytitle>gai_strerror</refentrytitle><manvolnum>3
</manvolnum>
</citrefentry>
if an error occurs.
If both
<parameter>hostname</parameter>
and
<parameter>servname</parameter>

are

<type>NULL</type>

<function>lwres_getaddrinfo()</function>

returns

<errorcode>EAI_NONAME</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE

ALSO</title>

<para>

<citerefentry>

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

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>RFC2133</refentrytitle>

</citerefentry>,

<citerefentry>

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

</citerefentry>,

<citerefentry>

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

</citerefentry>,

<citerefentry>

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

</citerefentry>,

<citerefentry>

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

</citerefentry>,

```
<citrefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>.
</para>
```

```
</refsect1>
</refentry>
```

Found

in path(s):

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

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

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase

= 16

MessageId=0x1

Severity=Error

Facility=Application

SymbolicName=BIND_ERR_MSG

Language=English

% 1

.
MessageId=0x2
Severity=Warning
Facility=Application
SymbolicName=BIND_WARN_MSG
Language=English
% 1
.

MessageId=0x3
Severity=Informational
Facility=Application
SymbolicName=BIND_INFO_MSG
Language=English
% 1
.

Found in path(s):

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

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h

*

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_neta.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_net_pton.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_pton.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetent.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_net_ntop.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_pw.c

```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getservent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/decunix/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_nw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_p.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_pr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_pw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/util.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/irs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux10/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/cygwin/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_ng.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_pr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/hesiod_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/hesiod.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_sv.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_ho.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_sv.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_sv.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_nw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getprotoent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetgrent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nul_ng.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/next/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/bitncmp.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/nameser/ns_name.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getpwent.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/irs_data.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_pr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_ng.c

```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/irs_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_ho.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/nameser/ns_ttl.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/nameser/ns_parse.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/hesiod.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/pathnames.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/irs_data.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_pw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/nameser/ns_netint.c

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

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*/

/* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp \$ */

#ifndef ISC_PLATFORM_H

#define

ISC_PLATFORM_H 1

/*****

**** Platform-dependent defines.

*****/

/***

** Network.

***/

/*

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

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

*/

@ISC_PLATFORM_NEEDNETINETIN6H@

/*

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

* to support in6_pkinfo (pretty much only BSD/OS).

*/

@ISC_PLATFORM_NEEDNETINET6IN6H@

/*

* If sockaddrs on this system have an sa_len field, ISC_PLATFORM_HAVESALEN

* will be defined.

*/

@ISC_PLATFORM_HAVESALEN@

/*

* If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6

* will be defined.

*/

@ISC_PLATFORM_HAVEIPV6@


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

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

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

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

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

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

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

/*
* If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
*/
@ISC_PLATFORM_NEEDATON@

/*
* If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.
```

```

*/
@ISC_PLATFORM_NEEDPORTT@

/*
* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
*/
@ISC_PLATFORM_NEEDSTRSEP@

/*
* If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCOPY will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCOPY@

/*
* If the
system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCAT@

/*
* Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
*/
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
* Define if PTHREAD_ONCE_INIT should be surrounded by braces to
* prevent compiler warnings (such as with gcc on Solaris 2.8).
*/
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
* Define on some UnixWare systems to fix erroneous definitions of various
* IN6_IS_ADDR_* macros.
*/
@ISC_PLATFORM_FIXIN6ISADDR@

****
*** Printing.
****

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

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

```

```

*/
@ISC_PLATFORM_NEEDSPRINTF@

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

/*
* Defined if we are using threads.
*/
@ISC_PLATFORM_USETHREADS@

/*
* Defined if unistd.h does not cause
fd_set to be declared.
*/
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
* Type used for resource limits.
*/
@ISC_PLATFORM_RLIMITTYPE@

/*
* Define if your compiler supports "long long int".
*/
@ISC_PLATFORM_HAVELONGLONG@

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

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

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

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

```

```

*/
@ISC_PLATFORM_USEDECLSPEC@

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

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

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

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define
LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)

```

```
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */
```

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

```
#endif /* ISC_PLATFORM_H */
```

Found

in path(s):

```
*/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/platform.h.in
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_pr.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_pw.c

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-->

<!-- \$Id: lwres_getrrsetbyname.docbook,v

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

<refentry>
<refentryinfo>

<date>Oct 18, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_getrrsetbyname</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_getrrsetbyname</refname>

<refname>lwres_freerrset</refname>

<refpurpose>retrieve DNS records</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

<funcdef>

int

<function>lwres_getrrsetbyname</function></funcdef>

<paramdef>const char *hostname</paramdef>

<paramdef>unsigned int rdclass</paramdef>

<paramdef>unsigned int rdtype</paramdef>

<paramdef>unsigned int flags</paramdef>

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

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres_freerrset</function></funcdef>

<paramdef>struct rrsetinfo *rrset</paramdef>

</funcprototype>

</funcsynopsis>

<para>

The following structures

are used:

<programlisting>

```
struct rdatainfo {
```

```
    unsigned int    rdi_length;    /* length of data */
```

```
    unsigned char   *rdi_data;     /* record data */
```

```
};
```

```
struct rrsetinfo {
```

```
    unsigned int    rri_flags;     /* RRSET_VALIDATED... */
```

```

    unsigned int    rri_rdclass; /* class number */
    unsigned int    rri_rdtype; /* RR type number */
    unsigned int    rri_ttl;    /* time to live */
    unsigned int    rri_nrdatas; /* size of rdatas array */
    unsigned int    rri_nsigs;  /* size of sigs array */
    char            *rri_name;  /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs;  /* individual signatures */
};

```

</programlisting>

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres_getrrsetbyname()</function>

gets a set

of resource records associated with a

<parameter>hostname</parameter>,

<parameter>class</parameter>,

and

<parameter>type</parameter>.

<parameter>hostname</parameter>

is

a pointer to a null-terminated string. The

<parameter>flags</parameter>

field is currently unused and must be zero.

</para>

<para>

After a successful call to

<function>lwres_getrrsetbyname()</function>,

<parameter>*res</parameter>

is a pointer to an

<type>rrsetinfo</type>

structure, containing a list of one or more

<type>rdatainfo</type>

structures containing resource records and potentially another list of

<type>rdatainfo</type>

structures containing SIG resource records

associated with those records.

The members

<constant>rri_rdclass</constant>

and

<constant>rri_rdtype</constant>
are copied from the parameters.
<constant>rri_ttl</constant>
and
<constant>rri_name</constant>
are properties of the obtained rrset.
The resource records contained in
<constant>rri_rdatas</constant>
and
<constant>rri_sigs</constant>
are
in uncompressed DNS wire format.
Properties of the rdataset are represented in the
<constant>rri_flags</constant>
bitfield. If the RRSET_VALIDATED bit is set, the data has been DNSSEC
validated and the signatures verified.

</para>

<para>

All of the information returned by
<function>lwres_getrrsetbyname()</function>
is dynamically allocated: the
<constant>rrsetinfo</constant>
and
<constant>rdatainfo</constant>
structures,
and the canonical host name strings pointed to by the
<constant>rrsetinfo</constant>structure.

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

<function>lwres_getrrsetbyname()</function>
is released by
<function>lwres_freerrset()</function>.

<parameter>rrset</parameter>

is a pointer to a

<type>struct rrset</type>

created by a call to

<function>lwres_getrrsetbyname()</function>.

</para>

<para>

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres_getrrsetbyname()</function>

returns zero on success,
and one of the following error
codes if an error occurred:

<variablelist>

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

<listitem><para>

the name does not exist

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

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

<listitem><para>

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

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

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

<listitem><para>

memory could not be allocated

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

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

<listitem><para>

a parameter is invalid

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

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

<listitem><para>

other failure

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

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

<listitem><para>

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

</variablelist>

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

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

</citerefentry>.

</para>

</refsect1>

</refentry>

Found

in path(s):

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

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

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

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-->

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

<refentry>
<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_gabn</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_gabnrequest_render</refname>

<refname>lwres_gabnresponse_render</refname>

<refname>lwres_gabnrequest_parse</refname>

<refname>lwres_gabnresponse_parse</refname>

<refname>lwres_gabnresponse_free</refname>

<refname>lwres_gabnrequest_free</refname>

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

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

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lwres_result_t

<function>lwres_gabnrequest_render</function></funcdef>

<paramdef>lwres_context_t *ctx</paramdef>

<paramdef>lwres_gabnrequest_t *req</paramdef>

<paramdef>lwres_lwpacket_t *pkt</paramdef>

<paramdef>lwres_buffer_t *b</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres_result_t

<function>lwres_gabnresponse_render</function></funcdef>

<paramdef>lwres_context_t

```

*ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
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<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
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**structp</paramdef>
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</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
These are low-level routines for creating and parsing
lightweight resolver name-to-address lookup request and
response messages.
</para><para>
There are four main functions for the getaddrbyname opcode.

```


One render function converts a `getaddrbyname` request structure —

`lwres_gabnrequest_t` —

to the lightweight resolver's canonical format.

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

canonical format to a `getaddrbyname` request structure.

Another render function converts the `getaddrbyname` response structure —

`lwres_gabnresponse_t` —

to the canonical format.

This is complemented by a parse function which

converts a packet in

canonical format to a `getaddrbyname` response structure.

</para>

<para>

These structures are defined in

`<filename><lwres/lwres.h></filename>`.

They are shown below.

<programlisting>

```
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U
```

```
typedef struct lwres_addr lwres_addr_t;
```

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

```
typedef struct {
```

```
    lwres_uint32_t flags;
```

```
    lwres_uint32_t addrtypes;
```

```
    lwres_uint16_t namelen;
```

```
    char *name;
```

```
} lwres_gabnrequest_t;
```

```
typedef struct {
```

```
    lwres_uint32_t flags;
```

```
    lwres_uint16_t naliases;
```

```
    lwres_uint16_t naddrs;
```

```
    char *realname;
```

```
    char **aliases;
```

```
    lwres_uint16_t realnamelen;
```

```
    lwres_uint16_t *aliaslen;
```

```
    lwres_addrlist_t addrs;
```

```
    void *base;
```

```
    size_t baselen;
```

```
} lwres_gabnresponse_t;
```

</programlisting>

</para>

<para>

<function>lwres_gabnrequest_render()</function>

uses

resolver context

<parameter>ctx</parameter>

to convert `getaddrbyname` request structure

`<parameter>req</parameter>`

to canonical format.

The packet header structure

`<parameter>pkt</parameter>`

is initialised and transferred to

buffer

`<parameter>b</parameter>`.

The contents of

`<parameter>*req</parameter>`

are then appended to the buffer in canonical format.

`<function>lwres_gabnresponse_render</function>`

performs the same task, except it converts a `getaddrbyname` response structure

`<type>lwres_gabnresponse_t</type>`

to the lightweight resolver's canonical format.

`</para>`

`<para>`

`<function>lwres_gabnrequest_parse</function>`

uses context

`<parameter>ctx</parameter>`

to convert the contents of packet

`<parameter>pkt</parameter>`

to a

`<type>lwres_gabnrequest_t</type>`

structure.

Buffer

`<parameter>b</parameter>`

provides space to be used for storing this structure.

When the function succeeds, the resulting

`<type>lwres_gabnrequest_t</type>`

is

made available through

`<parameter>*structp</parameter>`.

`<function>lwres_gabnresponse_parse</function>`

offers the same semantics as

`<function>lwres_gabnrequest_parse</function>`

except it yields a

`<type>lwres_gabnresponse_t</type>`

structure.

`</para>`

`<para>`

`<function>lwres_gabnresponse_free</function>`

and

`<function>lwres_gabnrequest_free</function>`

release the memory in resolver context

`<parameter>ctx</parameter>`

that was allocated to the
<type>lwres_gabnresponse_t</type>
or
<type>lwres_gabnrequest_t</type>
structures referenced via
<parameter>structp</parameter>.

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

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The getaddrbyname opcode functions

<function>lwres_gabnrequest_render()</function>,&br/><function>lwres_gabnresponse_render()</function>

<function>lwres_gabnrequest_parse()</function>
and

<function>lwres_gabnresponse_parse()</function>
all return

<errorcode>LWRES_R_SUCCESS</errorcode>
on

success.

They return

<errorcode>LWRES_R_NOMEMORY</errorcode>
if memory allocation fails.

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
is returned if the available space in the buffer

<parameter>b</parameter>

is too small to accommodate the packet header or the
<type>lwres_gabnrequest_t</type>

and

<type>lwres_gabnresponse_t</type>
structures.

<function>lwres_gabnrequest_parse()</function>

and

<function>lwres_gabnresponse_parse()</function>
will return

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
if the buffer is not empty after decoding the received packet.

These functions will return

<errorcode>LWRES_R_FAILURE</errorcode>
if

<structfield>pktflags</structfield>
in the packet header structure

<type>lwres_lwpacket_t</type>

indicate that the packet is not a response to an earlier query.

</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3
</manvolnum>
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in path(s):

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*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_findzonecut.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/un.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/nameser/ns_date.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/irpmarshall.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/irp.h
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```

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```
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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/inet_pton.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/openssl_link.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst_api.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/streerror.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/parseint.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/syslog.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind9/getaddresses.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns.c
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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/logging.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_update.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_nw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_ng.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/logging_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/nsap_addr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/logging.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getgrent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_gr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_gr.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_mkupdate.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_ntop.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/nameser/ns_print.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gethostent.c
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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/dst/dst_api.c

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/dst/dst_internal.h

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*

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_cidr_ntop.c

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_cidr_pton.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_mkupdate.h

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

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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_waits.c

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/*

* SHA-1 in C

* By Steve Reid <steve@edmweb.com>

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*

* Test Vectors (from FIPS PUB 180-1)

* "abc"

* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D

* "abcdbcdecdefdefgefghfghighijhijkijklklmklmnlmnomnopnopq"

* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1

* A million repetitions of "a"

* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F

*/

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

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 in path(s):

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

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*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/portlist.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rrsig_46.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/stdlib.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/portlist.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nsec_47.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rrsig_46.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sshfp_44.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/ifiter_getifaddrs.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/hash.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dnskey_48.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nsec_47.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sshfp_44.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dnskey_48.h
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/*

* Get the response to 'request' by filling in 'message'.

*

* 'options' is passed

to dns_message_parse(). See dns_message_parse()

* for more details.

*

* Requires:

*

* 'request' is a valid request for which the caller has received the

* completion event.

*

* The result code of the completion event was ISC_R_SUCCESS.

*

* Returns:

*

* ISC_R_SUCCESS

*

* Any result that dns_message_parse() can return.

*/

Found in path(s):

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

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*/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/irp_nw.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/irp_sv.c

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*

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mg_8.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/txt_16.h

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mg_8.h

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/a_1.h

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/null_10.h

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

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

*

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mr_9.c

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mr_9.h

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*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mx_15.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/hinfo_13.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/md_3.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/minfo_14.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/mb_7.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/boolean.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/time.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/opt_41.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/event.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/threads/include/isc/thread.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/version.c
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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/memcluster.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/cygwin/include/ansi_realloc.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/memcluster.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/bsd/utimes.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/heap.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/list.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/heap.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/cert_37.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sig_24.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/getipnode.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/tests/t_api.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/message.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/loc_29.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/net.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/key_25.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/cache.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/sockaddr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/tkey_249.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/zone.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/message.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/ifiter_ioctl.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/adb.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/app.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/masterdump.c

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/a6_38.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/view.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdataset.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/view.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/zone.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/log.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nxt_30.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/net.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/dispatch.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/dnssec.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdataset.c
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```

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```

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*/
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Found in path(s):

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

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

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*/
```

Found in path(s):

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

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

```
/*
* The file basename is the facility name, the name is made
* uppercase. This file defines facility EVENTLIB
*/
```

```
module {
    description "EVENTLIB system messages";
}
```

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

```
format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
```

```
    arg {
        "int" dispatch_time "event dispatch time";
        "int" elapsed_time "event elapsed time";
        "int" hog_detected "event hog detected";
        "int" set_count "event set count since dispatch"
    }
```

```
    explanation
        "Eventlib historical summary for detected hog.";
```

```
    action
        "This event summary is part of a CPUHOG or TIMEHOG error, "
```

```

"providing diagnostic details useful
to engineering. "
"Save this summary message along with the HOG error. ";

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

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

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

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

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

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

```

Found in path(s):

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

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- */

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

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

```

Found

in path(s):

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

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

*

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/soa_6.c

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/txt_16.c

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/hinfo_13.c

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

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/null_10.c

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

*

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/opt_41.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/a_1.c

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

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

<refentry>
<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_context</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_context_create</refname>

<refname>lwres_context_destroy</refname>

<refname>lwres_context_nextserial</refname>

<refname>lwres_context_initserial</refname>

<refname>lwres_context_freemem</refname>

<refname>lwres_context_allocmem</refname>

<refname>lwres_context_sendrecv</refname>

<refpurpose>lightweight resolver context management</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

<funcdef>

lwres_result_t

<function>lwres_context_create</function></funcdef>

<paramdef>lwres_context_t **contextp</paramdef>

<paramdef>void *arg</paramdef>

<paramdef>lwres_malloc_t malloc_function</paramdef>

<paramdef>lwres_free_t free_function</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres_result_t

<function>lwres_context_destroy</function></funcdef>

<paramdef>lwres_context_t

**contextp</paramdef>

</funcprototype>

```

<funcprototype>
<funcdef>
void
<function>lwres_context_initserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_uint32_t
<function>lwres_context_nextserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_freemem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_allocmem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void *
<function>lwres_context_sendrecv</function></funcdef>
<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recvd_len</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_context_create()</function>
creates a
<type>lwres_context_t</type>

```

structure for use in lightweight resolver operations.
It holds a socket and other data needed for communicating with a resolver daemon.

The new

`<type>lwres_context_t</type>`

is returned through

`<parameter>contextp</parameter>`,

a pointer to a

`<type>lwres_context_t</type>`

pointer. This

`<type>lwres_context_t</type>`

pointer must initially be NULL, and is modified

to point to the newly created

`<type>lwres_context_t</type>`.

`</para>`

`<para>`

When the lightweight resolver needs to perform dynamic memory allocation, it will call

`<parameter>malloc_function</parameter>`

to allocate memory and

`<parameter>free_function</parameter>`

to

free it. If

`<parameter>malloc_function</parameter>`

and

`<parameter>free_function</parameter>`

are NULL, memory is allocated using

`.Xr malloc 3`

and

`<citerefentry>`

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

`</citerefentry>`.

It is not permitted to have a NULL

`<parameter>malloc_function</parameter>`

and a non-NULL

`<parameter>free_function</parameter>`

or vice versa.

`<parameter>arg</parameter>`

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

If

`<parameter>malloc_function</parameter>`

and

<parameter>free_function</parameter>

are NULL,

<parameter>arg</parameter>

is unused and should be passed as NULL.

</para>

<para>

Once memory for the structure has been allocated,

it is initialized using

<citerefentry>

<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>

and returned via

<parameter>*contextp</parameter>.

</para>

<para>

<function>lwres_context_destroy()</function>

destroys a

<type>lwres_context_t</type>,

closing

its socket.

<parameter>contextp</parameter>

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

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

</para>

<para>

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

This serial number is controlled using

<function>lwres_context_initserial()</function>

and

<function>lwres_context_nextserial()</function>.

<function>lwres_context_initserial()</function>

sets the serial number for context

<parameter>*ctx</parameter>

to

<parameter>serial</parameter>.

<function>lwres_context_nextserial()</function>

increments the serial number and returns the previous value.

</para>

<para>

Memory for a lightweight resolver context is allocated and freed using

<function>lwres_context_allocmem()</function>

and

<function>lwres_context_freemem()</function>.

These use whatever allocations were defined when the context was created

with

<function>lwres_context_create()</function>.

<function>lwres_context_allocmem()</function>

allocates

<parameter>len</parameter>

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

<function>lwres_context_freemem()</function>

frees

<parameter>len</parameter>

bytes of space starting at location

<parameter>mem</parameter>.

</para>

<para>

<function>lwres_context_sendrecv()</function>

performs I/O for the context

<parameter>ctx</parameter>.

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

It writes data from

<parameter>sendbase</parameter>

— typically a lightweight resolver query packet —

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

<parameter>recvbase</parameter>.

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

<parameter>*recvd_len</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres_context_create()</function>

returns

<errorcode>LWRES_R_NOMEMORY</errorcode>

if

memory for the

<type>struct lwres_context</type>

could not be allocated,

<errorcode>LWRES_R_SUCCESS</errorcode>

otherwise.

</para>

<para>
Successful calls to the memory allocator
<function>lwres_context_allocmem()</function>
return a pointer to the start of the allocated space.
It returns NULL if memory could not be allocated.
</para>
<para>
<errorcode>LWRES_R_SUCCESS</errorcode>
is returned when
<function>lwres_context_sendrecv()</function>
completes successfully.
<errorcode>LWRES_R_IOERROR</errorcode>
is returned if an I/O error occurs and
<errorcode>LWRES_R_TIMEOUT</errorcode>
is returned if
<function>lwres_context_sendrecv()</function>
times out waiting for a response.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

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

<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>.
</para>
</refsect1>
</refentry>

Found

in path(s):

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

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Found in path(s):

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

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```



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

Found

in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_gethostent.3
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/lex.c
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*
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```
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/result.h
```

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

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

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

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

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

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

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

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

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

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

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/keyflags.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/ipv6.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nls/msgcat.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/serial.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rcode.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/rdatastructpre.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/netdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/tests/include/tests/t_api.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/kx_36.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/dbtable.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rp_17.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rbtdb64.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rp_17.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rbtdb64.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/lib.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/dbtable.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/lib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/a6_38.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdatasetiter.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dname_39.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/syslog.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/cert.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/app.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/any_255/tsig_250.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/lfsr.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/gpos_27.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/mutexblock.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/msgcat.h

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/secproto.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/lib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/time.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/commandline.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/dir.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/stdtime.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/loc_29.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tcpmsg.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/key_25.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/tcpmsg.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lwpacket.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/dir.c
*

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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/interfaceiter.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/secalg.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/int.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/once.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/magic.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tkey.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdatasetiter.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/bitstring.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/journal.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/base64.h
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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rootns.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/stdtime.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/random.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/hs_4/a_1.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/fixname.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/x25_19.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/interfaceiter.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/lang.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/lib.h

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*/

Found in path(s):

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

*

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

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

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

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

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

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

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

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

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

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

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.\

.\\$Os

OPERATING_SYSTEM [version/release]

.\\$ The following requests should be uncommented and

.\\$ used where appropriate. This next request is

.\\$ for sections 2 and 3 function return values only.

.\\$ This next request is for sections 1, 6, 7 & 8 only

.\\$.Sh ENVIRONMENT

.\\$.Sh EXAMPLES

.\\$ This next request is for sections 1, 6, 7 & 8 only

.\\$ (command return values (to shell) and

```
.\" fprintf/stderr type diagnostics)
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS
```

Found in path(s):

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

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```
.\" $Id: eventlib.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
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```

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in path(s):

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

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Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_inetntop.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_getnameinfo.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_hsterror.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_inetntop.docbook
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_gai_sterror.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_gnba.docbook
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_packet.html
*
```

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_buffer.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_gai_strerror.docbook
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_noop.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_getnameinfo.docbook
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_resutil.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres.docbook
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_buffer.docbook
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_gethostent.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_context.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_gnba.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_config.html
*

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_hstrerror.docbook
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_packet.docbook
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_gabn.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_getipnode.html
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_noop.docbook
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.html

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*

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/*

* This code implements the MD5 message-digest algorithm.

* The algorithm is due

to Ron Rivest. This code was

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

* This code has been tested against that, and is equivalent,
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* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/md5.c
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.\" \$Id: lwres_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$
.\"

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in path(s):

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_config.3
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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/syslog.c

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

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

# Search for machine-generated header files in the
# build tree,
# and for normal headers in the source tree (${top_srcdir}).
# We only need to look in OS-specific subdirectories for the
# latter case, because there are no machine-generated OS-specific
# headers.

ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \
-I${top_srcdir}/lib/isc \
-I${top_srcdir}/lib/isc/include \
-I${top_srcdir}/lib/isc/unix/include \
-I${top_srcdir}/lib/isc/@ISC_THREAD_DIR@/include

ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \
-I${top_srcdir}/lib/isccfg/include

DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \
-I${top_srcdir}/lib/dns/include \
-I${top_srcdir}/lib/dns/sec/dst/include

OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \
-I${top_srcdir}/lib/omapi/include

LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \
-I${top_srcdir}/lib/lwres/include

TEST_INCLUDES = \
-I${top_srcdir}/lib/tests/include
```

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*

* BINOS specific changes to associate memcluster with an evctx

*

* March 2014,

Aswin Kuppusami

*/

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

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

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

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/zonekey.c

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/*

* SHA-1 in C

* By Steve Reid <steve@edmweb.com>

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*/

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 */
 /*
 * This is the header file for the MD5 message-digest algorithm.
 * The algorithm
 is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 *
 * Changed so as no longer to depend on Colin Plumb's `usual.h'
 * header definitions; now uses stuff from dpkg's config.h
 * - Ian Jackson <ijackson@nyx.cs.du.edu>.
 * Still in the public domain.
 */

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/md5.h

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/print.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/print.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/string.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/nsec.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdatalist.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/px_26.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/tkey.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rt_21.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/tkey_249.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/kx_36.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/log.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/print_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/afbdb_18.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/db.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/log.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/print.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/xfrin.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/resolver.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/keyvalues.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/nsec.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/srv_33.c

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

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

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/dst/md5_loc1.h

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/dst/md5_dgst.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/iscconf/namedconf.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/iscconf/include/iscconf/grammar.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/ds.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/eventlib.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/eventlib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_timers.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/eventlib_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/misc.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_files.c

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

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

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

<refentry>

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

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

<refnamediv>
<refname>lwres_ghostbyname</refname>
<refname>lwres_ghostbyname2</refname>
<refname>lwres_ghostbyaddr</refname>
<refname>lwres_ghostent</refname>
<refname>lwres_sethostent</refname>
<refname>lwres_endhostent</refname>
<refname>lwres_ghostbyname_r</refname>
<refname>lwres_ghostbyaddr_r</refname>
<refname>lwres_ghostent_r</refname>
<refname>lwres_sethostent_r</refname>
<refname>lwres_endhostent_r</refname>
<refpurpose>lightweight resolver get network host entry</refpurpose>
```

```

</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname</function></funcdef>
<paramdef>const char *name</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct
  hostent *
<function>lwres_gethostbyname2</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>

```

```

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

<refsect1>
<title>DESCRIPTION</title>
<para>
These

```

functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver.

They are similar to the standard

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

functions provided by most operating systems.

They use a

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

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

</para>

<para>

The members of this structure are:

```
<variablelist>
<varlistentry><term><constant>h_name</constant></term>
```

<listitem>

<para>

The official (canonical) name of the host.

</para>

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

```
<varlistentry><term><constant>h_aliases</constant></term>
```

<listitem>

<para>

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

</para>

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

```
<varlistentry><term><constant>h_addrtype</constant></term>
```

<listitem>

<para>

The type of address being returned —

```
<type>PF_INET</type>
```

or

```
<type>PF_INET6</type>.
```

</para>

</listitem></varlistentry>

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

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

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

<listitem>

<para>

A <type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

For backward compatibility with very old software,

<constant>h_addr</constant>

is the first address in

<constant>h_addr_list.</constant>

</para>

<para>

<function>lwres_gethostent(</function>,</function>

<function>lwres_sethostent(</function>,</function>

<function>lwres_endhostent(</function>,</function>

<function>lwres_gethostent_r(</function>,</function>

<function>lwres_sethostent_r(</function>

and

<function>lwres_endhostent_r(</function>

provide

iteration over the known host entries on systems that

provide such functionality through facilities like

<filename>/etc/hosts</filename>

or NIS. The lightweight resolver does not currently implement

these functions; it only provides them as stub functions that always

return failure.

</para>

<para>

<function>lwres_gethostbyname(</function> and

<function>lwres_gethostbyname2(</function> look up the hostname

<parameter>name</parameter>.

<function>lwres_gethostbyname(</function> always looks for an IPv4

address while <function>lwres_gethostbyname2(</function> looks for an

address of protocol family <parameter>af</parameter>: either

<type>PF_INET</type> or <type>PF_INET6</type> — IPv4 or IPV6

addresses respectively. Successful calls of the functions return a `struct hostent` for the name that was looked up. `NULL` is returned if the lookups by `lwres_gethostbyname()` or `lwres_gethostbyname2()` fail.

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

`lwres_gethostbyaddr_r()` is a thread-safe function that performs a reverse lookup of address `addr` which is `len` bytes long and is of protocol family `type` — `PF_INET` or `PF_INET6`. If an error occurs, the error code is returned in `*error`. The other function parameters are identical to those in `lwres_gethostbyname_r()`. `resbuf` is a pointer to a `struct hostent` which is initialised by a successful call to `lwres_gethostbyaddr_r()`. `buf` is a buffer of length `len` bytes which is used to store the `h_name`, `h_aliases`, and `h_addr_list` elements of the `struct`

hostent</type> returned in <parameter>resbuf</parameter>. Successful calls to <function>lwres_gethostbyaddr_r()</function> return <parameter>resbuf</parameter>, which is a pointer to the <function>struct hostent()</function> it created.

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The functions

<function>lwres_gethostbyname()</function>,</p></div>

<function>lwres_gethostbyname2()</function>,</p></div>

<function>lwres_gethostbyaddr()</function>,</p></div>

and</p></div>

<function>lwres_gethostent()</function></p></div>

return NULL to indicate an error. In this case the global variable</p></div>

<type>lwres_h_errno</type></p></div>

will contain one of the following error codes defined in</p></div>

<filename><lwres/netdb.h></filename>:</p></div>

<variablelist></p></div>

<varlistentry><term><constant>HOST_NOT_FOUND</constant></term></p></div>

<listitem></p></div>

<para></p></div>

The</p></div>

host or address was not found.</p></div>

</para></p></div>

</listitem></varlistentry></p></div>

<varlistentry><term><constant>TRY_AGAIN</constant></term></p></div>

<listitem></p></div>

<para></p></div>

A recoverable error occurred, e.g., a timeout.</p></div>

Retrying the lookup may succeed.</p></div>

</para></p></div>

</listitem></varlistentry></p></div>

<varlistentry><term><constant>NO_RECOVERY</constant></term></p></div>

<listitem></p></div>

<para></p></div>

A non-recoverable error occurred.</p></div>

</para></p></div>

</listitem></varlistentry></p></div>

<varlistentry><term><constant>NO_DATA</constant></term></p></div>

<listitem></p></div>

<para></p></div>

The name exists, but has no address information</p></div>

associated with it (or vice versa in the case</p></div>

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of a reverse lookup). The code NO_ADDRESS is accepted as a synonym for NO_DATA for backwards compatibility.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<citerefentry>

<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

translates these error codes to suitable error messages.

</para>

<para>

<function>lwres_gethostent()</function>

and

<function>lwres_gethostent_r()</function>

always

return

<type>NULL</type>.

</para>

<para>

Successful calls to <function>lwres_gethostbyname_r()</function> and

<function>lwres_gethostbyaddr_r()</function> return

<parameter>resbuf</parameter>, a pointer to the <type>struct

hostent</type> that was initialised by these functions. They return

<type>NULL</type> if the lookups fail or if <parameter>buf</parameter>

was too small to hold the list of addresses and names referenced by

the <constant>h_name</constant>, <constant>h_aliases</constant>, and

<constant>h_addr_list</constant> elements of the <type>struct

hostent</type>. If <parameter>buf</parameter> was too small, both

<function>lwres_gethostbyname_r()</function> and

<function>lwres_gethostbyaddr_r()</function> set the global variable

<type>errno</type> to <errorcode>ERANGE</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

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

</citerefentry>.

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

<citerefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1></p></div>

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

Found in path(s):
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_gethostent.docbook
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-->

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

```
<refentry>
<refentryinfo>
```

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

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

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

```
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
```

```

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

```

```

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

```

<parameter>filename</parameter>
and parses it to initialise the resolver context
<parameter>ctx</parameter>'s
<type>lwres_conf_t</type>
structure.

</para>

<para>

<function>lwres_conf_print()</function>

prints

the

<type>lwres_conf_t</type>

structure for resolver context

<parameter>ctx</parameter>

to the

<type>FILE</type>

<parameter>fp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres_conf_parse()</function>

returns

<errorcode>LWRES_R_SUCCESS</errorcode>

if it successfully read and parsed

<parameter>filename</parameter>.

It returns

<errorcode>LWRES_R_FAILURE</errorcode>

if

<parameter>filename</parameter>

could not be opened or contained incorrect

resolver statements.

</para>

<para>

<function>lwres_conf_print()</function>

returns

<errorcode>LWRES_R_SUCCESS</errorcode>

unless an error occurred when converting the network addresses to a
numeric host address string.

If this happens, the function returns

<errorcode>LWRES_R_FAILURE</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

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

Found

in path(s):

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

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.\"
```

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*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwinetpton.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/symtab.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/inet_ntop.c
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*
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/time.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/base64.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/task.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/rwlock.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/result.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/rwlock.c
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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_data.c
*
```

```
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_data.c
```

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```
AC_REVISION($Revision: 1.1 $)
```

```
AC_INIT(resolv/herror.c)
```

```
AC_PREREQ(2.13)
```

```
AC_CONFIG_HEADER(config.h)
```

```
AC_CANONICAL_HOST
```

```
AC_PROG_MAKE_SET
```

```
AC_PROG_RANLIB
```

```
AC_PROG_INSTALL
```

```
AC_SUBST(STD_CINCLUDES)
```

```
AC_SUBST(STD_CDEFINES)
```

```
AC_SUBST(STD_CWARNINGS)
```

```
AC_SUBST(CCOPT)
```

```
AC_PATH_PROG(AR,
```

```
ar)
```

```
ARFLAGS="cruv"
```

```
AC_SUBST(AR)
```

```
AC_SUBST(ARFLAGS)
```

```
# The POSIX ln(1) program. Non-POSIX systems may substitute
```

```
# "copy" or something.
```

```

LN=ln
AC_SUBST(LN)

case "$AR" in
  "")
    AC_MSG_ERROR([
ar program not found. Please fix your PATH to include the directory in
which ar resides, or set AR in the environment with the full path to ar.
])

    ;;
esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etags)

#
# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
  AC_MSG_CHECKING(for Exuberant Ctags etags)
  if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
    AC_MSG_RESULT(yes)
    ETAGS="$ETAGS -L"
  else
    AC_MSG_RESULT(no)
  fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL,
  perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
  '${prefix}/include')
    includedir='${prefix}/bind/include'
    ;;
esac

```

```

case "$libdir" in
'${prefix}/lib')
libdir='${prefix}/bind/lib'
;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
;;
*)
#
# Not all systems have dirname.
#
changequote({, })
ac_dir=""echo $INSTALL | sed 's%/[^/*]*$%%'"
changequote([, ])

ac_prog=""echo
$INSTALL | sed 's%.*/%%'"
test "$ac_dir" = "$ac_prog" && ac_dir=.
test -d "$ac_dir" && ac_dir="(cd \"$ac_dir\" && pwd)\"
INSTALL="$ac_dir/$ac_prog"
;;
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
case "$host" in
*-dec-osf*)
CC="cc"
;;
*-solaris*)
# Use Sun's cc if it is available, but watch

```

```

        # out for /usr/ucb/cc; it will never be the right
        # compiler to use.
        #
        # If setting CC here fails, the AC_PROG_CC done
        # below might still find gcc.
IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS=":"
for ac_dir in $PATH; do
  test -z "$ac_dir" && ac_dir=.
  case
"$ac_dir" in
  /usr/ucb)
    # exclude
    ;;
  *)
    if test -f "$ac_dir/cc"; then
      CC="$ac_dir/cc"
      break
    fi
    ;;
  esac
done
IFS="$ac_save_ifs"
;;
*-hp-hpux*)
  CC="cc"
  ;;
mips-sgi-irix*)
  CC="cc"
  ;;
esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC_C_CONST
AC_C_INLINE
AC_TYPE_SIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
#

```

```

case $ac_cv_header_unistd_h in
yes)
AC_MSG_CHECKING(if unistd.h defines fd_set)
AC_TRY_COMPILE([
#include <unistd.h>,
[fd_set read_set; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
],
[AC_MSG_RESULT(no)
case ac_cv_header_sys_select_h in
yes)
ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
;;
no)
AC_MSG_ERROR([need either working unistd.h or sys/select.h])
;;
esac
])
;;
no)
case ac_cv_header_sys_select_h
in
yes)
ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
;;
no)
AC_MSG_ERROR([need either unistd.h or sys/select.h])
;;
esac
;;
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-gr Build ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}"
;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)

```

```

AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pw Build ...],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
    WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nis Build ...],
want_irs_nis="$withval",
want_irs_nis="no")
case "$want_irs_nis" in
yes)
    WANT_IRS_NIS="#define WANT_IRS_NIS 1"
    WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}"
    case "$want_irs_gr" in
    yes)
        WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";;
    *)
        WANT_IRS_NISGR_OBJS="";;
    esac
    case "$want_irs_pw" in
    yes)
        WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";;
    *)
        WANT_IRS_NISPW_OBJS="";;
    esac
    ;;
*)
    WANT_IRS_NIS="#undef WANT_IRS_NIS"
    WANT_IRS_NIS_OBJS=""
    WANT_IRS_NISGR_OBJS=""
    WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif

```

```

main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval",
use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
*-openbsd*)
devrandom=/dev/srandom
;;
*)
devrandom=/dev/random
;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
"$devrandom"),)
;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])
;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;
esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#

```



```

AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads disable multithreading])
case "$enable_threads" in
yes|")
AC_MSG_RESULT(yes)
use_threads=true
;;
no)
AC_MSG_RESULT(no)
use_threads=false
;;
*)
AC_MSG_ERROR([--enable-threads takes yes or no])
;;
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case
"$host" in
*-netbsd*)
# NetBSD has multiple pthreads implementations. The
# recommended one to use is "unproven-pthreads". The
# older "mit-pthreads" may also work on some NetBSD
# versions. The PTL2 thread library does not
# currently work with bind9, but can be chosen with
# the --with-ptl2 option for those who wish to
# experiment with it.
CC="gcc"
AC_MSG_CHECKING(which NetBSD thread library to use)

AC_ARG_WITH(ptl2,
[ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}

if test "X$use_ptl2" = "Xyes"
then
AC_MSG_RESULT(PTL2)
AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
CC=ptlgcc
else

```

```

if test ! -d $LOCALBASE/threads
then
  AC_MSG_RESULT(none)
  use_threads=false
fi

if $use_threads
then
  AC_MSG_RESULT(mit-threads/unproven-threads)
  pkg="$LOCALBASE/threads"
  lib1="-L$pkg/lib -Wl,-R$pkg/lib"
  lib2="-lpthread"
  -lm -lgcc -lpthread"
  LIBS="$lib1 $lib2 $LIBS"
  CPPFLAGS="$CPPFLAGS -I$pkg/include"
  STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
fi
fi
;;
*)
  AC_CHECK_LIB(pthread, pthread_create,,
  AC_CHECK_LIB(pthread, __pthread_create,,
  AC_CHECK_LIB(pthread, __pthread_create_system,,
  AC_CHECK_LIB(c_r, pthread_create,,
  AC_CHECK_LIB(c, pthread_create,,
  use_threads=false))))
  ;;
esac
fi

if $use_threads
then
  #
  # We'd like to use sigwait() too
  #
  AC_CHECK_LIB(c, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, _Psigwait,
    AC_DEFINE(HAVE_SIGWAIT),))
  )

  AC_CHECK_FUNC(pthread_attr_getstacksize,
    AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

  #
  # Additional OS-specific issues related to pthreads and sigwait.

```

```

#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
    AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
    ;;
#
#
BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsdi3.*|*-bsdi4.0*)
    AC_DEFINE(NEED_PTHREAD_INIT)
    ;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
    AC_DEFINE(HAVE_LINUXTHREADS)
    ;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
    AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
    AC_CHECK_FUNC(pthread_setconcurrency,
        AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
    AC_DEFINE(POSIX_GETPWUID_R)
    AC_DEFINE(POSIX_GETPWNAM_R)
    AC_DEFINE(POSIX_GETGRGID_R)
    AC_DEFINE(POSIX_GETGRNAM_R)
    ;;
*hpux11*)
    AC_DEFINE(_PTHREADS_DRAFT4)
    ;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
    AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
    ;;
esac

```

```

#
# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf,
AC_DEFINE(HAVE_SYSCONF,))

if test "X$GCC" = "Xyes"; then
case "$host" in
*-freebsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-openbsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
LIBS="$LIBS -lthread"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
esac
else
case $host in
*-dec-osf*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
CC="$CC -mt"
CCOPT="$CCOPT -mt"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"
;;
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="\${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="\${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="\${WANT_IRS_THREADS_OBJS}"

```

```

thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADS_PW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat,
AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADS_PW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMESLINKID="#define USE_IFNAMESLINKID 1"],
[USE_IFNAMESLINKID="#undef USE_IFNAMESLINKID"])
AC_SUBST(USE_IFNAMESLINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
,
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

#

```

```

#
flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
  AC_MSG_RESULT(yes)
else
  AC_MSG_RESULT(no)
fi

#
# End of pthreads stuff.
#

#
# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Xyes"; then
  STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
  case $host in
    *-dec-osf*)
      CC="$CC -std"
      CCOPT="$CCOPT -std"
      MKDEPCC="$CC"
      ;;
    *-hp-hpux*)
      CC="$CC -Ae -z"
      # The version of the C compiler that constantly warns about
      # 'const' as well as alignment issues is unfortunately not
      # able to be discerned via the version of the operating
      # system, nor does cc have a version flag.
      case
        "$CC +W 123 2>&1" in
          *Unknown?option*)
            STD_CWARNINGS="+w1"
            ;;
          *)

```

```

# Turn off the pointlessly noisy warnings.
STD_CWARNINGS="+w1 +W 474,530"
;;
esac
CCOPT="$CCOPT -Ae -z"
LIBS="-Wl,+vnocompatwarnings $LIBS"
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk """"BEGIN {colon=0; rec="";} { for (i = 0 ; i < NF; i++)
{ if (colon && a[$i]) continue; if ($i == "\\") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec " :"}
colon = 1 continue; } if (length(rec $i) > 76) { print rec " \\\t"; rec = "\t" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1;
} } } END {print rec}"""" >>$TMP'
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
;;
*-sgi-irix*)
STD_CWARNINGS="-fullwarn -woff 1209"
#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
;;
*-solaris*)
MKDEPCFLAGS="-xM"
;;
*-UnixWare*)
CC="$CC
-w"
;;
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
;;
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

```

```

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,
# AC_CHECK_LIB(socket, socket)
# AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
mips-sgi-irix*)
;;
*)
AC_CHECK_LIB(d4r, gethostbyname_r)
AC_CHECK_LIB(socket, socket)
AC_CHECK_LIB(nsl, inet_ntoa)
;;
esac

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
[ --with-purify[=PATH] use Rational purify],
use_purify="$withval", use_purify="no")

case "$use_purify" in
no)
;;
yes)
AC_PATH_PROG(purify_path,
purify, purify)
;;
*)
purify_path="$use_purify"
;;
esac

case "$use_purify" in
no)
AC_MSG_RESULT(no)

```



```

PURIFY=""
;;
*)
if test -f $purify_path || test $purify_path = purify; then
  AC_MSG_RESULT($purify_path)
  PURIFYFLAGS=""echo $PURIFYOPTIONS`"
  PURIFY="$purify_path $PURIFYFLAGS"
else
  AC_MSG_ERROR([$purify_path not found.

```

Please choose the proper path with the following command:

```

  configure --with-purify=PATH
)
fi
;;
esac

```

```

AC_SUBST(PURIFY)

```

```

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
  [ --with-libtool use GNU libtool (following indented options supported)],
  use_libtool="$withval", use_libtool="no")

```

```

case $use_libtool in
yes)
  AM_PROG_LIBTOOL
  O=lo
  A=la
  LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
  LIBTOOL_MODE_COMPILE='--mode=compile'
  LIBTOOL_MODE_INSTALL='--mode=install'
  LIBTOOL_MODE_LINK='--mode=link'
  ;;
*)
  O=o
  A=a
  LIBTOOL=
  AC_SUBST(LIBTOOL)
  LIBTOOL_MKDEP_SED=
  LIBTOOL_MODE_COMPILE=
  LIBTOOL_MODE_INSTALL=
  LIBTOOL_MODE_LINK=
  ;;
esac

```

```

#
#
File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#

#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[ --enable-ipv6 use IPv6 [default=autodetect]])

case "$enable_ipv6" in
yes|"autodetect")
AC_DEFINE(WANT_IPV6)
;;
no)
;;
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
found_ipv6=yes],
[AC_MSG_RESULT(no)

```

```

found_ipv6=no))

#
# See whether
# IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")

case "$use_kame" in
no)
;;
yes)
kame_path=/usr/local/v6
;;
*)
kame_path="$use_kame"
;;
esac

case "$use_kame" in
no)
AC_MSG_RESULT(no)
;;
*)
if test -f $kame_path/lib/libinet6.a; then
AC_MSG_RESULT($kame_path/lib/libinet6.a)
LIBS="-L$kame_path/lib -linet6 $LIBS"
else
AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.

Please choose the proper path with the following command:

configure --with-kame=PATH
])
fi
;;
esac

#
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without

```

```

it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
#netinet6/in6.h is needed for.
#
changequote({, })
case "$host" in
*-bsdi4.[01]*)
ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
isc_netinet6in6_hack="#include <netinet6/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
isc_netinet6in6_hack=""
;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in
*-UnixWare*)
ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
isc_netinetin6_hack="#include <netinet/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
isc_netinetin6_hack=""
;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
HAS_INET6_STRUCTS="#define
HAS_INET6_STRUCTS 1"

AC_MSG_CHECKING(for in6_addr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack

```

```

],
[struct in6_addr in6; return (0);],
[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

AC_MSG_CHECKING(for in6addr_any)
AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct
sockaddr_in6 xyzy; xyzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"])
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],

```

```

[struct in6_pktinfo xyzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"])

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_storage xyzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)

HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"])
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

```

```

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs
# to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_pton(0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON
1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"])

```

```
AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)
```

```
#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
*-dec-osf*)
# Turn on 4.4BSD style sa_len support.
AC_DEFINE(_SOCKADDR_LEN)
;;
esac
```

```
AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef
HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)
```

```
# HAVE_MINIMUM_IFREQ
```

```
case "$host" in
*-bsdi[2345]*) have_minimum_ifreq=yes;;
*-darwin*) have_minimum_ifreq=yes;;
*-freebsd*) have_minimum_ifreq=yes;;
*-lynxos*) have_minimum_ifreq=yes;;
*-netbsd*) have_minimum_ifreq=yes;;
*-next*) have_minimum_ifreq=yes;;
*-openbsd*) have_minimum_ifreq=yes;;
*-rhapsody*) have_minimum_ifreq=yes;;
esac
```

```
case "$have_minimum_ifreq" in
yes)
HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
no)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
*)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)
```



```

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"
case "$host" in
*aix3.2*) PORT_DIR="port/aix32";;
*aix4*) PORT_DIR="port/aix4";;
*aux3*) PORT_DIR="port/aux3";;
*-bsdi2*) PORT_DIR="port/bsdos2";;
*-bsdi*) PORT_DIR="port/bsdos";;
*-cygwin*) PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;
*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynxos*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
    BSD_COMP="#define
BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
    PORT_DIR="port/solaris";;
*-solaris2.5*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
    PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)

```

```

AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define
ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([

```

```

#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)]

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for
int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)

```

```

AC_TRY_COMPILE([
#include <netdb.h>,
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
  [ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
  [ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
  [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
  [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
  [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"
AC_DEFINE(HAVE_GETADDRINFO)],
  [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
  [NEED_PSELECT="#undef NEED_PSELECT"],
  [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
  [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
  [NEED_GETTIMEOFDAY="#define
NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
  [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
  [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif

```

```

],
[AC_MSG_RESULT(yes)
  AC_DEFINE(HAVE_IFLIST_SYSCTL)],
[AC_MSG_RESULT(no)]

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
[ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
[ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
[ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
[ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS print.$O"
  ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS print.c"
  ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
[USE_SYSERROR_LIST="#undef
  USE_SYSERROR_LIST"],
[USE_SYSERROR_LIST="#define USE_SYSERROR_LIST 1"])
AC_SUBST(USE_SYSERROR_LIST)

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
  ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "l"'],
[AC_MSG_RESULT(ll)
  ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'],
[AC_MSG_RESULT(default ll)
  ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT
  "ll"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

#
# Security Stuff
#

```

```
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))
```

```
#
```

```
# for accept, recvfrom, getpeername etc.
```

```
#
```

```
AC_MSG_CHECKING(for socket length type)
```

```
AC_TRY_COMPILE([
```

```
#include <sys/types.h>
```

```
#include <sys/socket.h>
```

```
int accept(int, struct sockaddr *, socklen_t *);
```

```
],[],
```

```
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
```

```
AC_MSG_RESULT(socklen_t)]
```

```
,
```

```
AC_TRY_COMPILE([
```

```
#include <sys/types.h>
```

```
#include <sys/socket.h>
```

```
int accept(int, struct sockaddr *, unsigned int *);
```

```
],[],
```

```
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
```

```
AC_MSG_RESULT(unsigned int)]
```

```
,
```

```
AC_TRY_COMPILE([
```

```
#include <sys/types.h>
```

```
#include <sys/socket.h>
```

```
int accept(int, struct sockaddr *, unsigned long *);
```

```
],[],
```

```
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
```

```
AC_MSG_RESULT(unsigned long)]
```

```
,
```

```
AC_TRY_COMPILE([
```

```
#include <sys/types.h>
```

```
#include <sys/socket.h>
```

```
int accept(int, struct sockaddr *, long *);
```

```
],[],
```

```
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
```

```
AC_MSG_RESULT(long)]
```

```
,
```

```
ISC_SOCKLEN_T="#define
```

```
ISC_SOCKLEN_T int"
```

```
AC_MSG_RESULT(int)
```

```
))))
```

```
AC_SUBST(ISC_SOCKLEN_T)
```

```
AC_CHECK_FUNC(getgrouplist,
```

```
AC_TRY_COMPILE(
```

```
[#include <unistd.h>
```

```
int
```

```

getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
],
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int
*ngroups"
,
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
),
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPEMENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
int buflen) { }
],
[return (0);],
[
NET_R_ARGS="#define NET_R_ARGS
char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT

```

```

#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r (unsigned long int, int, struct netent *,
                   char *, size_t, struct netent **, int *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answer, int *h_errnop"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN
int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],

```



```

[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define
NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)
,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[
#undef
__USE_MISC
#define __USE_MISC
#include <netdb.h>

```

```

void setnetent_r (int);
],[return (0);],[
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
],[return (0);],[
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
),
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include
<netdb.h>
void endnetent_r (void);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC

```

```

#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)
)
)
,
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include
<grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
int buflen) { }
],[return (0);],[
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
],
)
)
,
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"

```

```

GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENT_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

AC_CHECK_FUNC(endgrent_r,
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENT_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#undef
GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) {}
],
[return (0);],
[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"

```

```

HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int gethostbyname_r(const
char *name,
                struct hostent *result,
                struct hostent_data *hdptr);
],[
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
                struct hostent *,
                char *, size_t,
                struct hostent **,
                int *);
],[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define
HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
],
)))
,

```

```

HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE([
#undef
_REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
], ,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
]],
AC_TRY_COMPILE([
#undef _REENTRANT

```

```

#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
],
)
)
)
,
HOST_R_END_RESULT="#define
HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);],[,
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);],[,
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

```

```

void      sethostent_r (int);[],[]
[HOST_R_SET_RESULT="#undef
HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
)
)
)
,
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

```

```

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
],[struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) {}
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) {}
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,

```



```

SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);

```

```

]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD
(0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
NGR_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
,
)
)
)
,
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,

```

```

[
case
"$host" in
*bsdi*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
;;
*)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
;;
esac
]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
    char *buffer, int buflen) { }
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define
    PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC

```

```

#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
)
,
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define
PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]

```

```

”
[
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
)
,
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void          setprotoent_r __P((int));
],[],
PROTO_R_SET_RESULT="#undef
PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
,
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {}
]
,

```

```

[]
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
,
)
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd
*"
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
], ,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))

```

```
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))
```

```
AC_CHECK_FUNC(setpwent_r,  
AC_TRY_COMPILE([  
#include <pwd.h>  
void setpwent_r(FILE **pwpf);  
], ,  
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"  
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN  
int"  
,  
AC_TRY_COMPILE([  
#include <pwd.h>  
int setpwent_r(FILE **pwpf);  
], ,  
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"  
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"  
,  
)  
)  
,  
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"  
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"  
AC_DEFINE(NEED_SETPWENT_R)  
)  
AC_SUBST(PASS_R_SET_RESULT)  
AC_SUBST(PASS_R_SET_RETURN)
```

```
AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
```

```
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))
```

```
AC_CHECK_FUNC(getservent_r,  
AC_TRY_COMPILE([  
#undef __USE_MISC  
#define __USE_MISC  
#include <netdb.h>  
struct servent *  
getservent_r(struct servent *result, char *buffer, int buflen) {}  
],[return (0);],  
[  
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"  
SERV_R_BAD="#define SERV_R_BAD NULL"  
SERV_R_COPY="#define SERV_R_COPY buf, buflen"  
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"  
SERV_R_OK="#define SERV_R_OK sptr"  
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"  
SERV_R_RETURN="#define SERV_R_RETURN
```

```

struct servent *"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
)
,
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sprtr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
[
#undef
_REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

```



```

void endservent_r(void);
]
,
,
[
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
]
,
)
,
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setservent_r(int);
]
"
[
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,
)
,
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define
SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[
#undef _REENTRANT

```

```

#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
”
[
INETGR_ARGS="#undef INNETGR_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(char *netgroup, char *host, char *user, char *domain);
]
”
[
INETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,
))

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]
”
[
SETNETGREN_ARGS="#undef SETNETGREN_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT

```

```

#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void
setnetgrent(char *);
]
”
[
SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"
]
,
))
AC_SUBST(SETNETGRENT_ARGS)
AC_SUBST(INNETGR_ARGS)

#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
*-bsd3.1*)
hack_shutup_sputaux=yes
;;
*-bsd4.0*)
hack_shutup_sigwait=yes
hack_shutup_sputaux=yes
hack_shutup_in6addr_init_macros=yes
;;
*-bsd4.1*)
hack_shutup_stdargcast=yes
;;
*-solaris2.8)
hack_shutup_pthreadonceinit=yes
hack_shutup_in6addr_init_macros=yes
;;
esac

case "$hack_shutup_pthreadonceinit" in
yes)
#
# Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
#
ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"

```

```

;;
esac

case
"$hack_shutup_sigwait" in
yes)
#
# Shut up a -Wmissing-prototypes warning for sigwait().
#
AC_DEFINE(SHUTUP_SIGWAIT)
;;
esac

case "$hack_shutup_sputaux" in
yes)
#
# Shut up a -Wmissing-prototypes warning from <stdio.h>.
#
AC_DEFINE(SHUTUP_SPUTAUX)
;;
esac

case "$hack_shutup_stdargcast" in
yes)
#
# Shut up a -Wcast-qual warning from va_start().
#
AC_DEFINE(SHUTUP_STDARG_CAST)
;;
esac

case "$hack_shutup_in6addr_init_macros" in
yes)
AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
;;
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

```

```

. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
make/rules
make/mkdep
make/includes
Makefile
bsd/Makefile
dst/Makefile
include/Makefile
inet/Makefile
irs/Makefile
isc/Makefile
nameser/Makefile
port_after.h
port_before.h
resolv/Makefile
port/Makefile
${PORT_DIR}/Makefile
${PORT_INCLUDE}/Makefile
)

#
Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:

Found in path(s):
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/configure.in
No license file was found, but licenses were detected in source scan.

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```

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*/

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

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```
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*/
```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/irp_gr.c
```

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```
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* PERFORMANCE OF THIS SOFTWARE.
*/
```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/hmacmd5.c
```

```
*
```

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

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

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

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

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

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

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

```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwpacket.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/npaths.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/resource.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/os.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/version.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/fsaccess.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lang.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/gai_strerror.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/unistd.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/offset.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/fsaccess.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/keyboard.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/stats.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/keyboard.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/socket_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/keytable.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/hmacmd5.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/timer_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/platform.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/ondestroy.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwres_noop.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/ondestroy.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/hex.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/win32/bindevt/bindevt.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/timer.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/formatcheck.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/stats.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/keyboard.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/entropy.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/bit.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwres_grbn.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/netdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lwres.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/fsaccess.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/quota.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/timer.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/soa.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/netdb.h.in
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/mutex.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/resource.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/errno2result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/lookup.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/int.h

```



```

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/include/isc/offset.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/int.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/thread.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/assert_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/task_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/quota.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/diff.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/file.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/keytable.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/forward.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/include/lwres/net.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/sdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/once.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwresutil.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/forward.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/errno2result.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/netdb.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwres_gabn.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/thread.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/ipv6.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/os.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdatalist_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/stdio.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwbuffer.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/gethost.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/context_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/stdio.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/soa.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/gssapictx.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind9/include/bind9/getaddresses.h

*

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

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

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

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind9/include/bind9/version.h

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind9/version.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind9/include/bind9/check.h

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

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

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

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

*

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

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/win32/DLLMain.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/version.h

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind9/win32/DLLMain.c

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/win32/DLLMain.c

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

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

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

*

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

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

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

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/key.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/key.c

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*
 * @(#)cdefs.h 8.7 (Berkeley) 1/21/94
 */

Found in path(s):

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h
 * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h

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

Found

in path(s):

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

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```
*/
```

```
/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp $ */
```

```
#ifndef LWRES_PLATFORM_H
```

```
#define
```

```
LWRES_PLATFORM_H 1
```

```
/*****
```

```
**** Platform-dependent defines.
```

```
****/
```

```
/**
```

```
*** Network.
```

```
***/
```

```
/*
```

```
* Define if this system needs the <netinet/in6.h> header file for IPv6.
```

```
*/
```

```
@LWRES_PLATFORM_NEEDNETINETIN6H@
```

```

/*
* Define if this system needs the <netinet6/in6.h> header file for IPv6.
*/
@LWRES_PLATFORM_NEEDNETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
* will be defined.
*/
@LWRES_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
* will be defined.
*/
@LWRES_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback,
* LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in_addr6, rather than in6_addr,
* LWRES_PLATFORM_HAVEINADDR6 will be defined.
*/
@LWRES_PLATFORM_HAVEINADDR6@

/*
* Defined if unistd.h does not cause fd_set to be declared.
*/
@LWRES_PLATFORM_NEEDSYSSELECTH@

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

/*
* Defined this system needs vsnprintf() and snprintf().
*/

```

@LWRES_PLATFORM_NEEDVSNPRINTF@

/*

* If this system need a modern sprintf() that returns (int) not (char*).

*/

@LWRES_PLATFORM_NEEDSPRINTF@

#ifndef LWRES_PLATFORM_USEDECLSPEC

#define LIBLWRES_EXTERNAL_DATA

#else

#ifdef LIBLWRES_EXPORTS

#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)

#else

#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)

#endif

#endif

#endif /* LWRES_PLATFORM_H */

Found in path(s):

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/platform.h.in

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_gr.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_nw.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_gr.c

*

*/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_sv.c

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

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

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- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwconfig.c
- *
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/validator.c
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/opensslrsa_link.c
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/isc/isc/isc/isc/parser.c
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/socket.c
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/messages.h
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/validator.h
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/entropy.c
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/diff.c
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/byaddr.h
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/byaddr.c
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/hex.c
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/entropy.c
- * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/getrrset.c

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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/util.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/ccmsg.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/lib.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/base64.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/alist.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/symtype.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/cc.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/symtab.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/lib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/base64.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/events.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/symtab.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/sexpr.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/alist.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/ccmsg.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/types.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/sexpr.c

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

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*

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/ipv6.h

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/gssapi_link.c

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/errno2result.c

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

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/errno2result.c

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

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwres_gnba.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/request.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/os.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/entropy.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/cfg/include/isc/cfg/cfg.h
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.\ "
.\ "
.\ " The following six UNCOMMENTED lines are required.
.\ " Os OPERATING_SYSTEM [version/release]
.\ " Dt DOCUMENT_TITLE [section number] [volume]
.\ " The following requests should be uncommented and
.\ " used where appropriate. This next request is
.\ " for sections 2 and 3 function return values only.
.\ " This next request is for sections 1, 6, 7 & 8 only
.\ " .Sh ENVIRONMENT
.\ " .Sh EXAMPLES
.\ " This next request is for sections 1, 6, 7 & 8 only
.\ " (command return values (to shell) and
.\ " fprintf/stderr type diagnostics)
.\ " .Sh DIAGNOSTICS
.\ " The next request is for sections 2 and 3 error
.\ " and signal handling only.
.\ " .Sh STANDARDS
.\ " .Sh HISTORY
.\ " .Sh BUGS
```

Found in path(s):

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/logging.mdoc
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.\"
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.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh FILES
.\" .Sh EXAMPLES
```

```
.\ " This next request is for sections 1, 6, 7 & 8 only
.\ " (command return values (to shell) and
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.\ " .Sh DIAGNOSTICS
.\ " The next request is for sections 2 and 3 error
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.\ " .Sh STANDARDS
.\ " .Sh HISTORY
.\ " .Sh BUGS
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```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/res_update.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/nameser/ns_verify.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/nameser/ns_sign.c
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```

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Found in path(s):

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/make/rules.in
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Found in path(s):

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

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

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

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

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

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

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

Found

in path(s):

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

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.\"

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

.\"

Found in path(s):

*

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

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_getipnode</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_getipnodebyname</refname>

<refname>lwres_getipnodebyaddr</refname>

<refname>lwres_freehostent</refname>

<refpurpose>lightweight resolver nodename / address translation API</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

<funcdef>

struct hostent *

<function>lwres_getipnodebyname</function></funcdef>

<paramdef>const char *name</paramdef>

<paramdef>int af</paramdef>

<paramdef>int flags</paramdef>

<paramdef>int *error_num</paramdef>

</funcprototype>

<funcprototype>

```

<funcdef>
struct hostent *
<function>lwres_getipnodebyaddr</function></funcdef>
<paramdef>const void *src</paramdef>
<paramdef>size_t len</paramdef>
<paramdef>int
af</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freehostent</function></funcdef>
<paramdef>struct hostent *he</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>

```

```

<para>
These functions perform thread safe, protocol independent
nodename-to-address and address-to-nodename
translation as defined in RFC2553.
</para>

```

```

<para>
They use a
<type>struct hostent</type>
which is defined in
<filename>namedb.h</filename>:
<programlisting>
struct hostent {
    char *h_name; /* official name of host */
    char **h_aliases; /* alias list */
    int h_addrtype; /* host address type */
    int h_length; /* length of address */
    char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>
</para>

```

```

<para>
The members of this structure
are:
<variablelist>

```

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

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

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

<listitem>

<para>

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

</para>

</listitem></varlistentry>

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

<listitem>

<para>

The type of address being returned - usually

<type>PF_INET</type>

or

<type>PF_INET6</type>.

</para>

</listitem></varlistentry>

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

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

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

<listitem>

<para>

A

<type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres_getipnodebyname()</function>

looks

up addresses of protocol family

<parameter>af</parameter>

for the hostname

<parameter>name</parameter>.

The

<parameter>flags</parameter>

parameter contains ORed flag bits to

specify the types of addresses that are searched for, and the types of addresses that are returned.

The flag bits are:

<variablelist>

<varlistentry><term><constant>AI_V4MAPPED</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.

</para>

</listitem></varlistentry>

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

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF_INET6, and causes all known addresses (IPv6 and IPv4) to be returned.

If AI_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.

</para>

</listitem></varlistentry>

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

<listitem>

<para>

Only return an IPv6 or

IPv4 address if here is an active network

interface of that type. This is not currently implemented

in the BIND 9 lightweight resolver, and the flag is ignored.

</para>

</listitem></varlistentry>

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

<listitem>

<para>

This default sets the

<constant>AI_V4MAPPED</constant>

and

<constant>AI_ADDRCONFIG</constant>

flag bits.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

`<function>lwres_getipnodebyaddr()</function>`

performs a reverse lookup
of address

`<parameter>src</parameter>`

which is

`<parameter>len</parameter>`

bytes long.

`<parameter>af</parameter>`

denotes the protocol family, typically

`<type>PF_INET</type>`

or

`<type>PF_INET6</type>`.

`</para>`

`<para>`

`<function>lwres_freehostent()</function>`

releases all the memory associated with
the

`<type>struct hostent</type>`

pointer

`<parameter>he</parameter>`.

Any memory allocated for the

`<constant>h_name</constant>`,

`<constant>h_addr_list</constant>`

and

`<constant>h_aliases</constant>`

is

freed, as is the memory for the

`<type>hostent</type>`

structure itself.

`</para>`

`</refsect1>`

`<refsect1>`

`<title>RETURN VALUES</title>`

`<para>`

If an error occurs,

`<function>lwres_getipnodebyname()</function>`

and

`<function>lwres_getipnodebyaddr()</function>`

set

`<parameter>*error_num</parameter>`

to an appropriate error code and the function returns a

`<type>NULL</type>`

pointer.

The error codes and their meanings are defined in

`<filename><lwres/netdb.h></filename>`:

```

<variablelist>
<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
<listitem>
<para>
No such host is known.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>NO_ADDRESS</constant></term>
<listitem>
<para>
The server recognised the request and the name but no address is
available. Another type of request to the name server for the
domain might return an answer.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
<listitem>
<para>
A temporary and possibly
transient error occurred, such as a
failure of a server to respond. The request may succeed if
retried.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
<listitem>
<para>
An unexpected failure occurred, and retrying the request
is pointless.
</para>
</listitem></varlistentry>
</variablelist>
</para>
<para>
<citerefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
translates these error codes to suitable error messages.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>RFC2553</refentrytitle>
</citerefentry>,

```

```
<citrefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>lwres_gethostent</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>lwres_getnameinfo</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>.
```

```
</para>
```

```
</refsect1>
```

```
</refentry>
```

Found

in path(s):

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

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

```
.\"
```

Found

in path(s):

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<!-- \$Id: lwres_resutil.docbook,v

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_resutil</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_string_parse</refname>

<refname>lwres_addr_parse</refname>

<refname>lwres_getaddrbyname</refname>

```

<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_string_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>char **c</paramdef>
<paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_addr_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getaddrsbyname</function></funcdef>
<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbareponse_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

<para>

```

`lwres_string_parse()` retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer `b`: i.e. `b-¤t`. When the function returns, the address of the first byte of the encoded string is returned via `*c` and the length of that string is given by `*len`. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing `NULL` character.

`lwres_addr_parse()` extracts an address from the buffer `b`. The buffer's current pointer `b-¤t` is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to `addr-&address` and `addr-&length` indicates the size in bytes of the address that was copied. `b-¤t` is advanced to point at the next byte of available data in the buffer following the encoded address.

`lwres_getaddrbyname()` and `lwres_getnamebyaddr()` use the `lwres_gnbaresponse_t` structure defined below:

```
typedef struct {
    lwres_uint32_t    flags;
    lwres_uint16_t    naliases;
    lwres_uint16_t    naddrs;
    char              *realname;
    char              **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
    lwres_addrlist_t  addrs;
    void              *base;
    size_t            baselen;
} lwres_gabnresponse_t;
```

The contents of this structure are not manipulated directly but

they are controlled through the

```
<citerefentry>
<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
functions.
</para>
```

```
<para>
The lightweight resolver uses
<function>lwres_getaddrbyname()</function> to perform forward lookups.
Hostname <parameter>name</parameter> is looked up using the resolver
context <parameter>ctx</parameter> for memory allocation.
<parameter>addrtypes</parameter>
is a bitmask indicating which type of
addresses are to be looked up. Current values for this bitmask are
<type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and
<type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the
lookup are returned in <parameter>*structp</parameter>.
</para>
```

```
<para>
<function>lwres_getnamebyaddr()</function> performs reverse lookups.
Resolver context <parameter>ctx</parameter> is used for memory
allocation. The address type is indicated by
<parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or
<type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given
by <parameter>addr</parameter> and its length is
<parameter>addrlen</parameter> bytes. The result of the function call
is made available through <parameter>*structp</parameter>.
</para>
</refsect1>
```

```
<refsect1>
<title>RETURN VALUES</title>
<para>
Successful calls to
<function>lwres_string_parse()</function>
and
<function>lwres_addr_parse()</function>
return
<errorcode>LWRES_R_SUCCESS.</errorcode>
Both
functions return
<errorcode>LWRES_R_FAILURE</errorcode>
if the buffer is corrupt or
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
if the buffer has less space than expected for the components of the
```

encoded string or address.

</para>

<para>

<function>lwres_getaddrbyname()</function>

returns

<errorcode>LWRES_R_SUCCESS</errorcode>

on success and it returns

<errorcode>LWRES_R_NOTFOUND</errorcode>

if the hostname

<parameter>name</parameter>

could not be found.

</para>

<para>

<errorcode>LWRES_R_SUCCESS</errorcode>

is returned by a successful call to

<function>lwres_getnamebyaddr()</function>.

</para>

<para>

Both

<function>lwres_getaddrbyname()</function>

and

<function>lwres_getnamebyaddr()</function>

return

<errorcode>LWRES_R_NOMEMORY</errorcode>

when memory allocation requests fail and

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>

if the buffers used for sending queries and receiving replies are too small.

</para>

</refsect1>

<refsect1>

<title>SEE

ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres_buffer</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,</refsect1>

<citerefentry>

<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

Found in path(s):

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

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/openssldsa_link.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/dst_parse.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/hmac_link.c

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*

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_network.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_makeaddr.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_lnaof.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_netof.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getprotoent_r.c

*

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getgrent_r.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetent_r.c

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getpwent_r.c

```
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gethostent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getservent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetgrent_r.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/zt.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tsig.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/hs_4/a_1.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/callbacks.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/ipv6.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/gpos_27.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/ncache.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/events.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/dnssec.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/ratelimiter.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/isdn_20.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdataslab.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/compress.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/lfsr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/unspec_103.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/ratelimiter.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rootns.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/log.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/acl.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/journal.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/wks_11.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/zt.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rbt.h
```


* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/netaddr.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/x25_19.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap_22.c
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/masterdump.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/acl.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/master.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/tsig.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nxt_30.h
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* msg_eventlib.c - Error messages for evlib
*
* January 2007, Vikram Visweswaraiah
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*

/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h

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

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aix32/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h
*
/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h
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```

Found in path(s):

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getaddrinfo.c

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*/

/*

* We're going to become the least open

* version.

*/

Found in

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

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.\"

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

.\"

Found

in path(s):

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

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Found in path(s):

* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/irp_pr.c

*

/* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/irp_pw.c

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Found in path(s):

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

1.192 gawk 4.2.1-2.el8

1.192.1 Available under license :

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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

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The

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<signature of Ty Coon>, 1 April 1990
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1.197 p11-kit 0.23.21-4.el8

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1.198 iputils 20180629-6.el8

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```
/*
*-----
* ip_parser_linkpoints.h - IP related parser linkpoint decls.
*
* April, 2005
*
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* All rights reserved.
*
*-----
*/
```

Found in path(s):

* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ip_parser_linkpoints.h

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```
/*
*-----
* util_ip.c -- miscellaneous ip specific utility routines
*
* Feb 2008, Hiral mehta
```

*
* Copyright (c) 2008, 2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/src/ip_util.c
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Found in path(s):

* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/reg/ip_15_registry.reg
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/makefile
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/expl_path/makefile
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/src/src.mk
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/expl_path/src/src.mk
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/*
*-----
* ipaddress_api.h
*
* Febuary 2004
*
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*-----
*/

Found in path(s):

* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ipaddress_api.h
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/*
*-----
* ip_parser_macros.h - IP* macros moved out of
* sys/parser/macros.h
*
* November, 2004
*
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* All rights reserved.
*-----
*
*/

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* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ip_parser_macros.h

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```
/*-----  
* ip_15_registry.h -- Registration Points for IP_15 support  
*  
* August 2006, Krishna Kumar Maurya  
*  
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* All rights reserved.  
*-----  
* The file ip_registry.reg has been re-factored into 44 different  
* registries to address the 2G problem. The detail regarding the  
* mapping of registries into services is available at  
* /vob/ios.sys1/deprecated/sys/ip/ip_registry_map.txt  
* For further detail regarding the re-factoring of registries,  
* please mail in your queries to dolphins@cisco.com  
*/
```

Found in path(s):

* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ip_15_registry.h

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```
/*-----  
* ip_parser_linkpoints.c - IP related parser linkpoint definitions.  
*  
* April, 2005  
*  
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*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/src/ip_parser_linkpoints.c

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```
##  
## Component "ip":  
##  
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##
```

syntax: 1.0.0

meta-source files found within component 'ip'

group: generic

{

 reg:

 include/reg/ip_15_registry.reg

 include/reg/ip_registry.reg

}

migrated from file: 'ip/src/src.mk'

group: top

{

 includes: \$(IOS_SYSROOT)/ion/include \$(COMPONENT_ROOT)/posix/include

These diagnostic disables are temporary and must be removed

after fixing the problems in the source code

 if: compiler == gcc.c4.7

 {

 cflags : -Wno-error=unused-but-set-variable -Wno-error=enum-compare

 }

 sub: ip_parser

 {

 contains:

 src/ip_parser_linkpoints.c

 }

 sub: ip_registry

 {

 contains:

 src/ip_registry.c

 }

 sub: ip_util

 {

 contains:

 src/ip_util.c

 }

}

end of group: top

##

Found in path(s):

* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/content.lst

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/*

*-----

* ip_util.h

*
* February 2005
*
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*-----
*/

Found in path(s):

* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ip_util.h

1.199 glib 2.56.4-9.el8

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Version 2.1, February 1999

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1.200 libsemanage-common 2.9-4.el8

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```

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```
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```

The hypothetical commands

```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.201 elfutils 0.182-3.el8

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```
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```

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```
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parseinfo.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/datastore.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/structdef.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/ActionTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/fixup_parser_extension.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/LinkTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SimpleELF.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Makefile
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extract_func_calls.py
```

```
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/codegen.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/StructFormat.py
*
/opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SimpleCType.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/setup.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/struct_unpack.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/gdblist.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/bat_structoffset.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/CmdSelector.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parser_bin_tool.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SymbolTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extract_address.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Traverser.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/graph_algo.py
*
/opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/actionenum.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/handler.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Condition.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SimpleTraverser.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/tlutils.py
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```

```
/*
* lua_ex_api.h
*
* July 2016, Jingfeng Yan
*
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*/
```

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* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/lua_ex_api.h
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```
/*
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parser_bin_tool_readme.html

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* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parser_bin_tool_readme.html
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```
/*  
* symbol_type_info.c  
*  
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*/
```

Found in path(s):

* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/symbol_type_info.c

1.202 systemd 239-43.el8

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1.203 iptables 1.8.4-16.el8

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```
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```

```

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

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

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

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

Found in path(s):
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv3/nfs-utils
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(include systemd-common)

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

```

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/systemd-swrt

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

usr/lib/systemd/system/poweroff.target
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/reboot.target
 usr/lib/systemd/system/reboot.target
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/remote-fs.target
 usr/lib/systemd/system/remote-fs.target
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/rescue.service
 usr/lib/systemd/system/rescue.service
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/rescue.target
 usr/lib/systemd/system/rescue.target
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/shutdown.target
 usr/lib/systemd/system/shutdown.target
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/slices.target
 usr/lib/systemd/system/slices.target
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/sockets.target
 usr/lib/systemd/system/sockets.target
 /usr/lib/systemd/system/systemd-journald.socket
 usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
 /usr/lib/systemd/system/systemd-udev-control.socket
 usr/lib/systemd/system/sockets.target.requires/systemd-udev-control.socket
 /usr/lib/systemd/system/systemd-udev-kernel.socket
 usr/lib/systemd/system/sockets.target.requires/systemd-udev-kernel.socket
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/sys-kernel-config.mount
 usr/lib/systemd/system/sys-kernel-config.mount
 linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/sys-kernel-debug.mount
 usr/lib/systemd/system/sys-kernel-debug.mount
 /usr/lib/systemd/system/dev-hugepages.mount
 usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount
 /usr/lib/systemd/system/dev-mqueue.mount
 usr/lib/systemd/system/sysinit.target.wants/dev-mqueue.mount
 /usr/lib/systemd/system/sys-kernel-config.mount
 usr/lib/systemd/system/sysinit.target.wants/sys-kernel-config.mount
 /usr/lib/systemd/system/sys-kernel-debug.mount
 usr/lib/systemd/system/sysinit.target.wants/sys-kernel-debug.mount
 /usr/lib/systemd/system/systemd-journal-flush.service
 usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service
 /usr/lib/systemd/system/systemd-journald.service
 usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service
 /usr/lib/systemd/system/systemd-modules-load.service
 usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service
 /usr/lib/systemd/system/systemd-sysctl.service
 usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service
 /usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
 usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service
 /usr/lib/systemd/system/systemd-tmpfiles-setup.service
 usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup.service
 /usr/lib/systemd/system/systemd-udev-trigger.service
 usr/lib/systemd/system/sysinit.target.wants/systemd-udev-trigger.service
 /usr/lib/systemd/system/systemd-udev.service

usr/lib/systemd/system/sysinit.target.wants/systemd-udev.service

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

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

usr/lib/systemd/system/systemd-journal-flush.service

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

usr/lib/systemd/system/systemd-journald-dev-log.socket

infra/systemd/systemd-journald.service.d/visible.conf usr/lib/systemd/system/systemd-journald.service.d/visible.conf

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

usr/lib/systemd/system/systemd-fsck@.service

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

usr/lib/systemd/system/systemd-journald.socket

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

usr/lib/systemd/system/systemd-kexec.service

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

usr/lib/systemd/system/systemd-modules-load.service

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

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

usr/lib/systemd/system/systemd-reboot.service

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

usr/lib/systemd/system/systemd-sysctl.service

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

usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service

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

usr/lib/systemd/system/systemd-tmpfiles-setup.service

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

usr/lib/systemd/system/systemd-udev-settle.service

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

usr/lib/systemd/system/systemd-udev-trigger.service

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

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

usr/lib/systemd/system/systemd-udev-kernel.socket

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

usr/lib/systemd/system/timers.target

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

usr/lib/systemd/system/time-sync.target

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

usr/lib/systemd/system/umount.target

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

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

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

usr/lib/systemd/systemd-bootchart

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

```

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

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

```

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/systemd-common

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#

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(include all-common)

(include systemd-swrt)

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/all-swrt

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#

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#files related to nfs-statd.service

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

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



```

infra/systemd/nfs-statd.service          usr/lib/systemd/system/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat      usr/sbin/nfsstat

#files related to nfs-idmapd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.idmapd    usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount      usr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.
# The directory for plugin is fix to usr/lib/libnfsidmap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/${LIB}/libnfsidmap/nsswitch.so  usr/lib/libnfsidmap/nsswitch.so
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/idmapd.conf
    etc/idmapd.conf
infra/systemd/nfs-idmapd.service          usr/lib/systemd/system/nfs-idmapd.service

contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf

```

Found in path(s):

```

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv4/nfs-common
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```

```

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

```

```

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

```

(include nfs-common)

```

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

```

```

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

```

Found in path(s):

```

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv4/nfs-utils

```

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#

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

#

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/mount.nfs usr/sbin/mount.nfs

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/umount.nfs usr/sbin/umount.nfs

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/mount.nfs4 usr/sbin/mount.nfs4

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/umount.nfs4 usr/sbin/umount.nfs4

contrib/initscripts/binos/etc/\${NFS_VER}/nfsmount.conf etc/nfsmount.conf

\${PLATFORM_SYSROOT}/usr/lib/modules/\${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko

usr/lib/modules/\${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko

(include nfs-common)

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv4/nfs-utils-client

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(include systemd-common)

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system-preset/90-systemd.preset

usr/lib/systemd/system-preset/90-systemd.preset

/usr/lib/systemd/system/tmp.mount

usr/lib/systemd/system/local-

fs.target.requires/tmp.mount

infra/systemd/sysinit.target

usr/lib/systemd/system/sysinit.target

infra/systemd/cpld-symlink.service

usr/lib/systemd/system/cpld-symlink.service

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

usr/lib/systemd/system/systemd-journald.service

infra/systemd/systemd-journald.service.d/visible.conf

usr/lib/systemd/system/systemd-

journald.service.d/visible.conf

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

usr/lib/systemd/system/systemd-timedated.service

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

usr/lib/systemd/system/systemd-udev.service

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/lib/systemd/system/tmp.mount

usr/lib/systemd/system/tmp.mount

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/systemd

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#

May 2018, Victor Kamensky

#

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#

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auditd	usr/sbin/auditd
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/audispd	usr/sbin/audispd
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/autrace	usr/sbin/autrace
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/aureport	usr/sbin/aureport
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auditctl	usr/sbin/auditctl
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/ausearch	usr/sbin/ausearch

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

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/audit

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

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/ipcalc

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

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/systemtap

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

```
contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf
```

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsv3/nfs-common

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```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/dmesg      usr/bin/dmesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/kill       usr/bin/kill
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mount      usr/bin/mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/umount     usr/bin/umount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/agetty    usr/sbin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev  usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk    usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel  usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdisk     usr/sbin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fsck      usr/sbin/fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/hwclock   usr/sbin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkswap    usr/sbin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/pivot_root
  usr/sbin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sfdisk    usr/sbin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapoff   usr/sbin/swapoff
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapon    usr/sbin/swapon
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/arch       usr/bin/arch
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/cal        usr/bin/cal
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/chrt       usr/bin/chrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/col        usr/bin/col
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colcrt     usr/bin/colcrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colrm      usr/bin/colrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/column     usr/bin/column
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/flock      usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/getopt     usr/bin/getopt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hexdump    usr/bin/hexdump
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ionice     usr/bin/ionice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm
  usr/bin/ipcrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcs       usr/bin/ipcs
```

```

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/isosize  usr/bin/isosize
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/last    usr/bin/last
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/logger  usr/bin/logger
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/look    usr/bin/look
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/lsblk   usr/bin/lsblk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mesg    usr/bin/mesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/namei   usr/bin/namei
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/newgrp   usr/bin/newgrp
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/nsenter  usr/bin/nsenter
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rename   usr/bin/rename
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/renice   usr/bin/renice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rev     usr/bin/rev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/script  usr/bin/script
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setsid   usr/bin/setsid
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setterm  usr/bin/setterm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/taskset  usr/bin/taskset
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ul       usr/bin/ul
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/wall     usr/bin/wall
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/whereis  usr/bin/whereis
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/write    usr/bin/write
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdformat usr/sbin/fdformat
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkfs    usr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/raw     usr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctl  usr/sbin/zramctl

```

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/util-linux

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#

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(include audit)

(include bash)

(include binutils)

(include bridge-utils)

(include busybox)

(include bzip2)

(include coreutils)

(include cpio)

(include dbus)

(include diffutils)

(include dosfstools)

(include e2fsprogs)

(include ethtool)

(include file)

(include filesystem)
(include findutils)
(include gawk)
(include glibc)
(include grep)
(include gzip)
(include initscripts)
(include ipcalc)
(include iproute2)
(include iptables)
(include iputils)
(include kexec-tools)
(include kmod)
(include less)
(include libcap)
(include lsof)
(include modules)
(include ncurses)
(include netbase)
(include netcat)
(include netkit-telnet)
(include net-tools)
(include \${NFS_VER}/nfs-utils-client)
(include pciutils)
(include procps)
(include psmisc)
(include rpcbind)
(include sed)
(include shadow)
(include strace)
(include sysklogd)
(include systemtap)
(include sysvinit)
(include
tar)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/all-common

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#

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(include all-common)

(include systemd)

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/all

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#

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#

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#

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

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

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

Found in path(s):

* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/iputils

1.204 curl 7.61.1-17.el8

1.204.1 Available under license :

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1.205 libsolv 0.7.16-1.el8

1.205.1 Available under license :

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1.206 dnf 4.4.2-2.el8

1.206.1 Available under license :

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

```
/*
*-----
* erp_io.c - ERP IO common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2016-2017 by cisco Systems, Inc.
* All rights reserved.
```


*-----
*/

Found in path(s):

* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io.c

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

/*
*-----
* erp_ctrl_ha.c - ERP Controller HA common code
*
* Sep 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl_ha.c

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erp_ring.zn - Oxide rules file

June 2018, Gangadhara Valluri

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#

name: erp_ring;
type: erp_ring_t;
type: erp_instance_t;
type: erp_port_id_t;
type: erp_profile_t;
type: erp_instance_stats_t;
type: erp_port_info_t;
type: erp_l2req_state_t;
type: erp_raps_encap_t;
type: xos_bitlist_handle;
type: xos_list_t;
type: xos_list_element_t;

Found in path(s):

* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ring.zn

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

```
/*
*-----
* erp_ctrl_sm.c
* G.8032 ERP Controller state machine
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2020 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl_sm.c
```

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

```
/*
*-----
* erp_io.sm - Ethernet Ring Protection Controller state machine
*
* June 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

XOS_SM_EVENTLIST_BEGIN

XOS_SM_EVENT(init)

XOS_SM_EVENT(clear)

XOS_SM_EVENT(fs)

XOS_SM_EVENT(aps_fs)

XOS_SM_EVENT(local_sf)

XOS_SM_EVENT(local_clear_sf)

XOS_SM_EVENT(aps_sf)

XOS_SM_EVENT(aps_ms)

XOS_SM_EVENT(ms)

XOS_SM_EVENT(wtr_expires)

XOS_SM_EVENT(wtb_expires)

XOS_SM_EVENT(aps_nr_rb)

XOS_SM_EVENT(aps_nr)

XOS_SM_EVENT(ack)

XOS_SM_EVENTLIST_END

```
/*
* State machine states
* - Init,
* A_Idle,
```

* B_Protection,
* C_ManualSwitch,
* D_ForcedSwitch,
* E_Pending
*/

XOS_SM_STATE_BEGIN(init)

XOS_SM_TRANSITION(init, erp_io_sm_action_init,
init) /* wait ack */

XOS_SM_TRANSITION(ack, erp_io_sm_action_init_ack, E_Pending)

XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(A_Idle)

XOS_SM_TRANSITION(clear, erp_io_sm_action_null, A_Idle) /* wait ack */

XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, A_Idle) /* wait ack */

XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, A_Idle) /* wait ack */

XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, A_Idle) /* wait ack */

XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, A_Idle) /* wait ack */

XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, A_Idle) /* wait ack */

XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, A_Idle) /* wait ack */

XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, A_Idle) /* wait ack */

XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, A_Idle) /* wait ack */

XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, A_Idle) /* wait ack */

XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, A_Idle) /* wait ack
*/

XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, A_Idle) /* wait ack */

XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)

XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */

XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(B_Protection)

XOS_SM_TRANSITION(clear, erp_io_sm_action_null, B_Protection)

XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, B_Protection) /* wait ack */

XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, B_Protection) /* wait ack */

XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, B_Protection) /* wait ack */

XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, B_Protection) /* wait ack */

XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, B_Protection) /* wait ack */

XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, B_Protection) /* wait ack */

XOS_SM_TRANSITION(ms, erp_io_sm_action_null, B_Protection) /* wait ack */

XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, B_Protection) /* wait
ack */

XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, B_Protection) /* wait ack */

XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, B_Protection) /* wait ack */

XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, B_Protection) /* wait ack */

XOS_SM_TRANSITION(ack, erp_io_sm_action_B_Protection_ack, B_Protection)

XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */

XOS_SM_STATE_END

```

XOS_SM_STATE_BEGIN(C_ManualSwitch)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, C_ManualSwitch)
  XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms,
C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

```

```

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_null, D_ForcedSwitch)
/* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_STATE_END

```

```

XOS_SM_STATE_BEGIN(E_Pending)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_wtb_expires, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait ack */

```

XOS_SM_TRANSITION(ack, erp_io_sm_action_E_Pending_ack, E_Pending)
XOS_SM_STATE_END

Found in path(s):

* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io.sm

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

/*

*-----

* erp_pdb.h

* G.8032 Profile Database

*

* July 2010, Mark Bilstad

*

* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_pdb.c

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

/*

*-----

* erp_common.c - ERP common code

*

* July 2010, Viet Nguyen

*

* Copyright (c) 2010-2011 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_common.c

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

/*

*-----

* erp_debug.c - G.8032 Ethernet Ring Protection debug routines

*

* June 2010, Viet Nguyen

*

* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

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* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_debug.c

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

/*

*-----

* erp_io_pak.c - ERP IO packet handling source file

*

* August 2010, Ramachandran Ramanujalu

*

* Copyright (c) 2010-2014 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io_pak.c

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

/*

*-----

* erp_ctrl.sm - Ethernet Ring Protection Controller state machine

*

* June 2010, Viet Nguyen

*

* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

XOS_SM_EVENTLIST_BEGIN

XOS_SM_EVENT(init)

XOS_SM_EVENT(clear)

XOS_SM_EVENT(fs)

XOS_SM_EVENT(aps_fs)

XOS_SM_EVENT(local_sf)

XOS_SM_EVENT(local_clear_sf)

XOS_SM_EVENT(aps_sf)

XOS_SM_EVENT(aps_ms)

XOS_SM_EVENT(ms)

XOS_SM_EVENT(wtr_expires)

XOS_SM_EVENT(wtb_expires)

XOS_SM_EVENT(aps_nr_rb)

XOS_SM_EVENT(aps_nr)

XOS_SM_EVENT(ack)

XOS_SM_EVENTLIST_END

```

/*
 * State machine states
 * - Init,
 * A_Idle,
 * B_Protection,
 * C_ManualSwitch,
 * D_ForcedSwitch,
 * E_Pending
 */

XOS_SM_STATE_BEGIN(init)
  XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init,
init) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(A_Idle)
  XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,
A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_A_Idle_ack, A_Idle)
  XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(B_Protection)
  XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
  B_Protection) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_local_clear_sf,
  B_Protection) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null,
B_Protection) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */

```

```

XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf,
erp_ctrl_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_C_ManualSwitch_ack,
    C_ManualSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, D_ForcedSwitch)
/* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_D_ForcedSwitch_ack,
    D_ForcedSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, E_Pending) /* wait ack */

```



```

XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_E_Pending_ack, E_Pending)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

```

Found in path(s):

* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl.sm

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

```

/*
*-----
* erp_ctrl.c - ERP Controller common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2014, 2016-2019, 2021 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl.c

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```

/*
*-----
* erp_ridb.c
* G.8032 Ring/Instance Database
*
* July 2010, Mark Bilstad
*
* Copyright (c) 2010-2014, 2016, 2019 by Cisco Systems, Inc.
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*-----
*/

```

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/*

*-----

* erp_io_ha.c - ERP IO HA common code

*

* Sep 2010, Ramachandran Ramanujalu

*

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*-----

*/

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/*

*-----

* erp_cfg_parser.c - ERP config parser code

*

* August 2011

*

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*-----

*/

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/*

*-----

* erp_io_sm.c

* G.8032 ERP IO state machine

*

* July 2010, Viet Nguyen

*

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*-----

*/

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

/*

*-----

* erp_pd_caps_stubs.c - ERP Controller stub file

*

* July 2010, Ramachandran Ramanujalu

*

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*-----

*/

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* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_pd_caps_stubs.c

1.207 util-linux 2.32.1-26.el8

1.207.1 Available under license :

NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01

2 7680 16383 8704 4.3M 8f8378c0-02

5 7936 12799 4864 2.4M

6 12544 16127 3584 1.8M

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```

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```
WEV @@ WEV[B "1
```

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43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
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1.208 libpwquality 1.4.4-1.el8

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```
/*  
* pw_const.tph  
*  
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*/  
  
@DIRECTIVES{  
    auto_import_stg = false;  
    skip_auto_tdl_include = true;  
}@  
  
@IMPORT_STG{  
    import "constant_gen.stg";  
}@  
  
@TDL{  
    import "pw_const.tdl"  
}@  
  
@CODE{  
  
#ifndef __TDLC_GEN_PW_CONST_H__  
#define __TDLC_GEN_PW_CONST_H__  
  
    $constant_generate()  
  
#endif /* __TDLC_GEN_PW_CONST_H__ */  
  
}@
```

Found in path(s):

* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/include/pw_const.tph

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

```
/*  
* pw.c
```

```
*
* AAA password routines, adopted from IOX
*
* January 2005, Naiming Shen
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
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*
*-----
* pw.c -- password encryption/decryption routines
*
* May 08 2000, Mark Eklund
*
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* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/src/pw.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* pw.h
*
* Password routines, adopted from IOX
*
* May 2000 Mark Eklund
* July 2005, Craig MacFarlane
*
* Copyright (c) 2000-2005, 2007, 2010, 2014, 2018 by cisco Systems, Inc.
* All rights reserved.
*/
/*
* edt: * pw_type_t
* Possible formats of saving the password in SysDB.
*
* item: PW_TYPE_CLEAR
* The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
* The password encrypted to an MD5 digest. This is not reversible.
*
* item: PW_TYPE_1WAY_2
* The password encrypted to an sha256 digest. This is not reversible.
*
* item: PW_TYPE_2WAY
```


* The Cisco type 7 password encryption. This is reversible
* by both Cisco products and several public domain programs.
*/

Found in path(s):

* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/include/pw.h

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

/*

* pw_defs.h

*

* Password defines.

*

* July 2005, Craig MacFarlane

*

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*

*/

Found in path(s):

* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/include/pw_defs.h

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Found in path(s):

* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/Makefile.bin

1.209 shadow-utils 4.6-12.el8

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* /opt/cola/permits/1130449954_1615183583.0/0/shadow-tar/shadow/Makefile

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/*

* \$Id: port.c 1.11 Broadcom SDK \$

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* File: port.c

* Purpose: Manages untagged priority setting for port

*/

Found in path(s):

* /opt/cola/permits/1130449954_1615183583.0/0/shadow-tar/shadow/port.c

1.210 python 3.6.8-34.el8

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```
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```

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/AppEvent.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/CLIEvent.py
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/win_inet_pton.py
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/cshandler.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/FirewallService.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/nat.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/pfr/pfr_test.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/pfr/pfrconfig.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/pfr/pfroper.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/sample.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/advancedrouting/config.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/cs.py
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/TSerialization.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/__init__.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TProtocol.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/TProcessPoolServer.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TBase.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/Thrift.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TTwisted.py
```

```
*
```

/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TTransport.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/TServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TBinaryProtocol.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TCompactProtocol.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TSSLSocket.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/TCons.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/TNonblockingServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/THttpClient.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TSocket.py
*

/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TZlibTransport.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/THttpServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/__init__.py

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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/L2Acl.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/ntp/ntp_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/caps.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/dhcp/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/Version.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/dns.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/OnepAAAAttributeType.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceAddressChangeEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/L3Acl.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceCreateDeleteListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/EventManager.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatus.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/tools/release_Acl.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/tunnels/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/policyservice/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatisticsListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/ConnectionEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/KeepaliveMonitor.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/FRU.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/exception/ConfigFailedException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/policy/utest_l2_acl.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/csevent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/AddressAttribute.py

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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/AppListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/LicensingService.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/applmgmt/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/location/location.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/crypto/test_ike.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/interfaces/InterfaceAddressChangeFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/crypto/__init__.py
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/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/policy/utest_l3_acl.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/SyslogFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/tunnels/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/SessionHandle.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/core/exception/OnepIllegalArgumentException.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/policy/utest_filter_acl.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/Period.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/EventListener.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/routing/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/applmgmt/__init__.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStateListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/CLIListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/statistics.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceMtuListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/vrf.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/ntp.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/element/element_tls_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/cdp/CDPListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/tunnels/tunnel.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/NetworkPrefix.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/ConnectionListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TTIPCSocket.py
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*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/EventObject.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/ElementProperty.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/logger.py

```

```

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/Acl.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/policyservice/bulk_qos_test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/AppFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/classmap.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatisticsEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/NetworkApplication.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStateEvent.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/ElementConfig.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/Attribute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/tools/ADT_setup.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/IntAttribute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/HostIpCheck.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/tools/release_L3Acl.py
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tar/python/onep/interfaces/InterfaceCreateDeleteEvent.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/exception/OnepException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/core/licensing/licensing_test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/match.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/SessionStatistics.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/Server.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/exception/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/policymap.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/target.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/policyservice/action_test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/setup.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/licensing/licensing_Test.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/EventFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/core/exception/OnepConnectionException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/AsyncMsg.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/tools/customer_setup.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceProperty.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/element/element_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/SessionConfig.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/batch_helper.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/VtyListener.py
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/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/bulk.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/StringAttribute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-

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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/discovery/__init__.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/VtyService.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/cdp/CDPEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/identity/identity.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/interfacestatspoll.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/__init__.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/ServiceSetDescription.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/VtyData.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/VtyProxy.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/__init__.py
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tar/python/onep/interfaces/InterfaceBandwidthListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/util.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfListener.py
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/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/NetworkInterface.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/CiscoTSSLSocket.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/aaa/BinaryAttribute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/NetworkElement.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/dhcp/dhcp_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/element/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/topology/__init__.py
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/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatistics.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/core/exception/OnepInvalidSettingsException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/SyslogListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/L2Ace.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/dhcp/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/tools/internal_setup.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/socket_imp.py
*

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/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/crypto/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanListener.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/exception/OnePRemoteProcedureException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/router.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/pfr/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/crypto/crypto.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/cdp/CDPFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/Vlan.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceCreateDeleteFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/SessionProperty.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/mediatrace/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/event/EventDispatcher.py
No license file was found, but licenses were detected in source scan.

<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

Found in path(s):

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/lib/ant/pyanttasks-1-3-3-jar/META-INF/maven/org.pyant.tasks/pyAntTasks/pom.xml
No license file was found, but licenses were detected in source scan.

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Found in path(s):

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/OIRFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/OIEvent.py
No license file was found, but licenses were detected in source scan.

epilog = 'Copyright(c) 2014 Cisco Systems, Inc. All Rights Reserved')

Found in path(s):

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/basetest.py
No license file was found, but licenses were detected in source scan.

```
/*-----  
* README  
*  
* Cisco ONE-P Python SDK  
*  
* Copyright (c) 2011-2014 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```


Introduction:

The APIs contained in these modules allow the developer to design controller applications that interface to compatible Cisco network elements. These applications will be able to configure the element and retrieve statistics.

WARNING:

It is suggested that the developer be very knowledgeable of the network element configuration before applying. You can bring down a production network with the wrong setup!

onePK Python API Reference:

The onePK Python API Reference is provided in HTML format and can be found in the docs directory. Open the index.html with a web browser.

Installing Modules

Must

have Python version 2.7.

From root of uncompressed directory type:

```
python setup.py install
```

This will install the SDK modules in the standard directory.

If you wish to locate the modules into a custom directory:

```
python setup.py install --prefix="<your custom directory>"
```

Alternatively, pip can be used to install the SDK.

```
pip install <sdk_tar>
```

Pip can also be used to uninstall the sdk

```
pip uninstall onep-python-sdk
```

This will install the SDK modules in :

```
<your custom directory>/lib/python2.7/site-packages/onep
```

Be sure that your custom directory is included in the PYTHONPATH.

Creating Application

Must have a Cisco network device capable of communicating with ONE-P APIs. Network Element must also have onep configured with the socket transport and have the correct onep services activated. A network interface must be configured with a valid IP address and pingable.

First step to communicate with network element is to connect. See sample.py for a very basic example. You should be able to run:

```
./sample.py
```

Usage:

```
sample.py -a <element address or FQDN> [-t <transport_type>] \  
[-C <client cert file> -K <client private key file> \  
-R <root certificates file>]
```

```
-a <ip_addr or FQDN> Network element's IP Address or Fully Qualified Domain Name  
-t <tls|tipc> Transport type. Default is TLS connection  
-C <clientcert.pem> Client certificate file required TLS connection  
  (default location ./clientcert.pem)  
-K <clientkey.pem> Client private key file required for TLS connection  
  (default location ./clientkey.pem)  
-R <nerootca.pem> Root certificate file required for TLS connection  
  (default location ./nerootca.pem)
```

The application will prompt the user to enter username and password that are configured on the network element you are connecting to.

For more information on how to use TLS connection please refer to the

Getting Started Guide.

Happy Scripting!

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/README
```

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

```
# All rights reserved.
```

Found in path(s):

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/routing/RouterTest.py
```

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-
```

tar/python/onep/applmgmt/ApplicationExecCliListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/mediatrace/mtrace.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/dhcp/dhcp.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/applmgmt/ApplicationConfigCliListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/routing/PSSession.py
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Found in path(s):

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/core/tlspinningtest.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/core/enumtest.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/tlspinning.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/DiscoveryListener.py
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Found in path(s):

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/AppRouteTable.py
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Found in path(s):

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/CLIFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/OIRListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/ConnectionProperty.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policyservice/action.py
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Found in path(s):

* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingServiceStatusListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/onep/routing/UpdateRouteResponseListener.py

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RouteRange.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RouteOperation.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIBFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRouteOperation.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIBRouteStateListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ARTRouteStateListener.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/NextHop.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ReplayRouteEventListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRouteRange.py
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Found in path(s):
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```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/StatisticsListeners_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/AddressChangeEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/applmgmt/CliExtension_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/NetworkInterface_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceMtuEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationCli.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceCreateDeleteEvent_Test.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceStateEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceStatisticsEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceStatisticsFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceBandwidthEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceVlanChangeEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceMTUEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationCliData.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceMtuFilter.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceCreateDeleteFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceAddressChangeFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
tar/python/test/interfaces/InterfaceVrfChangeEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-
```

```
tar/python/test/interfaces/InterfaceBandwidthEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceBandwidthFilter.py
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Found in path(s):
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```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Node.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIB.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Scope.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingServiceStatusEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/UpdateRouteResponse.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Edge.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastNextHop.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyClass.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRoute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingClass.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRIBFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/IdlConverter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/NodeConnector.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIBRouteStateEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Route.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Graph.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ReplayRouteEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ARTRouteStateEvent.py
*
/opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastScope.py
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```

```
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```

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

```
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/DiscoveryEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/discovery/DiscoveryFilter.py
```

1.211 gzip 1.9-11.el8

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to most

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

That's all there is to it!

1.213 iproute 5.9.0-1.el8

1.213.1 Available under license :

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):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/msg_iproute.rc

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

```
/*-----
* router_af_actions_registry.c
*
* Router address family actions registry.
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
```

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_af_actions_registry.c
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):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_actions.c

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

/* \$Id\$

* \$Source\$

*-----


```

* iprouting_registry.c
*
* September 2001, Fan Kong
*
* Copyright (c) 2001, 2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_registry.c
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: iprouting_setup.c,v 3.4.4.1 1996/06/28 01:21:03 snyder Exp $
* $Source: /release/112/cvs/Xsys/iprouting/iprouting_setup.c,v $
*-----
* IP Routing setup commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2002, 2007-2008, 2010 by cisco Systems, Inc.
* 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):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_setup.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_route_default.h
No license file was found, but licenses were detected in source scan.

/* \$Id: cfg_router_timers.h,v 3.2.60.1 1996/04/15 21:17:46 bcole Exp \$
* \$Source: /release/112/cvs/Xsys/iprouting/cfg_router_timers.h,v \$
*-----
* C F G _ R O U T E R _ T I M E R S . H
*
* Copyright (c) 1992-1999, 2002, 2004-2011, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----
* \$Log: cfg_router_timers.h,v \$
* Revision 3.2.60.1 1996/04/15 21:17:46 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.2 1995/11/17 17:32:28 hampton
* Remove old entries from the RCS header logs.

```

*
* Revision 3.1 1995/11/09 12:06:09 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:04 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:13:13 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_timers.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* cfg_routemap_match_ip.h -- IP specific route-map clauses
*
* March 1995 Tony Li
*
* Copyright (c) 1995-1998, 2000-2002, 2004-2005, 2007-2010, 2014 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_match_ip.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* cfg_router_input-queue.h
*
* September 1997, Dawn Li
*
* Copyright (c) 1997-2002, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----

```

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_input-queue.h

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

/*

*-----

* cfg_router_topology_mode.h - router topology configuration sub mode
* commands.

*

* Sept 2004, Mercia Zheng

*

* Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology_mode.h

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

/*-----

* routemap_api.h -- Dynamic routemap API definitions.

*

* May 2003, Tanya Shastri

*

* Copyright (c) 2003, 2005-2009, 2011, 2013, 2015, 2018-2019 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_api.h

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

/*

*-----

* msg_routemap.c -- Message system definitions for Route-map

*

* Copyright (c) 2003, 2007-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/msg_routemap.c

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

/* \$Id\$

* \$Source\$

*-----

* iprouting_init_ionized.c - ION specific IP Routing Protocol support.

*

* September 2001, Chandra Appanna

*

* Copyright (c) 2001-2012 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ionized.c

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

/* \$Id\$

* \$Source\$

*-----

* IP routing clear commands

*

* May 1993, Robert Widmer

*

* Copyright (c) 1993-1999, 2001-2002, 2004-2010 by cisco Systems, Inc.

* All rights reserved.

*

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_clear_ip_routing.h

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

/* \$Id\$

* \$Source\$

*-----

* iprouting_debug.c -- Debugging routines for IP routing

```
*
* May 1993, John Bashinski
*
* Copyright (c) 1993-2010, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_debug.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*
*-----
* Generic route tag list support.
*
* June 2011, Karthik Subramaniam
*
* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routetag_list.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* C F G _ R O U T E R _ B F D . H
*
* Copyright (c) 2004-2008, 2010-2011, 2015 by cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_bfd.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* route_map_ion.h - Route map support data structures specific to ION.
```

```
*
* January 2002, Siva Yaragalla
*
* Copyright (c) 2002-2009, 2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/route_map_ion.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* network_constants.h -- General Networking Constants
*
* June 2002, interest-idb
*
* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/network_constants.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* route3_blob.c
*
* IOS and blob specific route3.c parser functions.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route3_blob.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_router.h,v 3.2.60.2 1996/08/12 16:03:38 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router.h,v $
*-----
* C F G _ R O U T E R . H
```

*
* Enter router subcommand mode
*
* Copyright (c) 1992-2002, 2005, 2007-2009, 2015, 2017-2018 by cisco Systems, Inc.
* All rights reserved.

*-----
* \$Log: cfg_router.h,v \$
* Revision 3.2.60.2 1996/08/12 16:03:38 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2.60.1 1996/04/15 21:17:43 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.2 1995/11/17 17:31:56 hampton
* Remove old
entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:20 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:46 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:17 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* \$Endlog\$
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router.h
No license file was found, but licenses were detected in source scan.

/*
*-----
* routemap_debug_flags.h -- Routemap debugging support
*
* July 1998, Wilber Su
*
* Copyright (c) 1998, 2004, 2007-2008, 2014 by cisco Systems, Inc.
* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_debug_flags.h

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

/*

*-----

* IOS prefix list support.

*

* March 2005, Sarath Chandran

*

* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ios.c

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

/*

*-----

* cfg_router_auto_summary.h

*

* October 1993

*

* Copyright (c) 1993-1996, 1999-2009 by cisco Systems, Inc.

* All rights reserved.

*

* Supports the router subcommand "auto-summary". Configures auto aggregation

* of routing information to the network number level.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_auto_summary.h

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

/* \$Id\$

* \$Source\$

*-----

* router_topology_chain.c - Parser chains of router topology sub mode

* for multi-topology routing support

* Sept 2004, Mercia Zheng

```
*
* Copyright (c) 2004-2010, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_topology_chain.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routing_context.c
*
* This file has global definitions for routing context support
* common to blob and iprouting proceses.
*
* March 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routing_context.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_routemap_set_policy.h,v 3.3.52.1 1996/05/21 09:53:12 thille Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_routemap_set_policy.h,v $
*-----
* cfg_routemap_set_policy.h -- Policy specific route map clauses
*
* Mar 1995 Tony Li
*
* Copyright (c) 1995-1996, 2000, 2002, 2004, 2007-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: cfg_routemap_set_policy.h,v $
* Revision 3.3.52.1 1996/05/21 09:53:12 thille
* CSCdi51599: multiple /interface/ literals bloat code.
* Branch: California_branch
* Save another 392 bytes by doing away with duplicate literals.
*
* Revision 3.3 1995/11/28 19:50:39 widmer
* CSCdi44251: Replace Ifelse(csb->in_help)/Eval with Func
```

```

*
* Revision 3.2 1995/11/17 17:31:55 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:18 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.3 1995/06/21 18:16:03 widmer
* CSCdi36227: Fix parse chain alternates
*
* Revision 2.2 1995/06/15 15:18:47 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.1 1995/06/07 21:05:42 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/cfg_routemap_set_policy.h
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* route_map_registry.h -- Registration Points for Route Maps support in ION
*
* July 2001, Siva Yaragalla
*
* Copyright (c) 2001, 2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route_map_registry.h
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* route_map_nbcmn.c -- Route map support non-Blob common routines
*
* October 2001, Siva Yaragalla
*
* Copyright (c) 2001-2013, 2018, 2020 by cisco Systems, Inc.
* All rights reserved.

```

*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_nbcmn.c
No license file was found, but licenses were detected in source scan.

/*-----
* routing_context.h - Routing Context library API
*
* March 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routing_context.h
No license file was found, but licenses were detected in source scan.

/*-----
* routemap_track_ios.c -- Route map support for tracking
* Functions shared by rp & vip.
*
* March 2003 Shyan Wignarajah
*
* Copyright (c) 2003-2010, 2013-2014, 2016 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_track_ios.c
No license file was found, but licenses were detected in source scan.

/*-----
* IP routing table flap statistics collection facility.
*
* Nov 1996, Ravi Chandra
*
* Copyright (c) 1995-1998, 2001-2005, 2007-2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_stats.c

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

/*

* -----

* route_capability.h

*

* August 2003, Peter Psenak

*

* Copyright (c) 2003-2004, 2007-2009, 2011, 2015 by Cisco Systems, Inc.

* All rights reserved.

* -----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route_capability.h

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

/*-----

* route_map_registry.c

*

* July 2001, Siva Yaragalla

*

* Copyright (c) 2001, 2003, 2007-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_registry.c

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

/* \$Id\$

* \$Source\$

*-----

* cfg_routemap_set_ip.h -- IP specific route-map clauses

*

* Mar 1995 Tony Li

*

* Copyright (c) 1995-1998, 2000-2004, 2006-2013, 2016, 2019 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_set_ip.h

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

/*

*-----

* routemap_internal.h

*

* Route map support data structures.

* To be included only by routemap code.

*

* Copyright (c) 1986-2003, 2005-2009, 2011, 2013-2015, 2018 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_internal.h

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

/* \$Id: cfg_ip_prefixlist.h,v 3.1.2.2 1998/02/23 19:43:42 enkechen Exp \$

* \$Source: /release/111/cvs/Xsys/ip/cfg_ip_prefixlist.h,v \$

*-----

* cfg_ip_prefix.h -- IP Prefix List Parser Commands

*

* June 1997, Enke Chen

*

* Copyright (c) 1997-2001, 2004, 2007-2008, 2019 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log: cfg_ip_prefixlist.h,v \$

* Revision 3.1.2.2 1998/02/23 19:43:42 enkechen

* CSCdj75270: Prefix-list: optimization for downloading large lists

* Branch: FIB_branch

*

* Revision 3.1.2.1 1997/12/17 21:36:57 enkechen

* CSCdj61356: Prefix-list - facility for efficient route filtering

* Branch: FIB_branch

*

* Revision 3.1 1997/12/17 01:46:33 enkechen

* Start with the new file.

*

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_ip_prefixlist.h

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

```
/* $Id$
 * $Source$
 *-----
 * cfg_router_flash-threshold.h
 *
 * January 1998, 2001 Dawn Li
 *
 * Copyright (c) 1998-1999, 2001, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 * $Log$
 *-----
 * $Endlog$
 */
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_flash-
threshold.h
```

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

```
/*
 *-----
 * routemap_ios.c -- Route map support routines that can be shared
 * by RP and VIP/LC
 *
 * July 1998 Wilber Su
 *
 * Copyright (c) 1998-2020 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 */
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_ios.c
```

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

```
/*
 *-----
 * policylist_ios.c - IOS stubs for notification routines
 * in policylist code
 *
 * Jun 2005, Tony P. Ambalathingal
 *
 * Copyright (c) 2003, 2005, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 *-----
```

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist_ios.c
No license file was found, but licenses were detected in source scan.

/*

*-----

* route_map_http_ion.c

*

* March, 2003 Phil Winterfield

*

*

* Copyright (c) 2003-2004, 2006-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_http_ion.c
No license file was found, but licenses were detected in source scan.

/*-----

* route_map_globs.c

*

* This file has the route map globals common to blob (for lc images)

* and routing process(for routing images).

*

* Copyright (c) 2002-2005, 2007-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_globs.c
No license file was found, but licenses were detected in source scan.

All rights reserved.

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-

tar/iprouting_cmn/include/reg/route_map_registry.reg

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-

tar/iprouting_cmn/include/reg/router_topology_registry.reg

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/makefile

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-

tar/iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-


```
tar/iprouting_cmn/include/reg/router_af_actions_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/.signature/makefile
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/reg/routing_context_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/iprouting_registry.reg
*
/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/lfafrr_registry.reg
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* ip_prefixlist_ion.h - IP Prefix Lists support for ION
*
* June 2002, Siva Yaragalla
*
* Copyright (c) 2002, 2005, 2007-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/ip_prefixlist_ion.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_router_distribute.h,v 3.3.50.2.6.1 1996/09/12 19:08:19 perry1 Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_distribute.h,v $
*-----
* C F G _ R O U T E R _ D I S T R I B U T E . H
*
* Copyright (c) 1992-2001, 2003-2012, 2015-2016, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_distribute.h,v $
* Revision 3.3.50.2.6.1 1996/09/12 19:08:19 perry1
* Branch: Att-branch
* Allow virtual-access interface for distribute-list
*
* Revision 3.3.50.2 1996/08/12 16:03:44 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3.50.1 1996/05/04 01:21:18 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
```

```

*
* Name Access List
*
* Revision 3.3 1995/12/04 06:47:13 tli
* CSCdi43559: IP: distribute-list 101 out should work
*
* Revision 3.2 1995/11/17 17:32:10 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:34 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:52 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:36 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_distribute.h
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* policylist_blob.c - Routines to handle policy-list commands.
*           Common for IOS and ION Blob.
*
* November 2003, Siva Yaragalla
*
* Copyright (c) 2003-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist_blob.c
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* ip_stats.c - IP for topology aware stats
*
* April 2006, Jonsky Hsu

```

*
* Copyright (c) 2006-2010 by cisco Systems, Inc.
* All rights reserved.
*
*-----
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_stats.c
No license file was found, but licenses were detected in source scan.

/*-----
* IP routemap test commands
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2008, 2011-2013, 2015, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*
*-----
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_test_ip_routemap.h
No license file was found, but licenses were detected in source scan.

/*-----
* route_map_def.h - Route Map Tyep Definition
*
* Feb, 2006 Allen Hu
*
* Copyright (c) 2006-2008, 2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route_map_def.h
No license file was found, but licenses were detected in source scan.

/*
*-----
* ip_prefixlist_ionized.c - IP Prefix Lists support for ionized processes
*
* August 2001, Siva Yaragalla
*
* Copyright (c) 2001-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.

*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ionized.c
No license file was found, but licenses were detected in source scan.

/*\$Id: cfg_router_maximum-paths.h,v 3.2 1995/11/17 17:32:11 hampton Exp \$
* \$Source: /swt/cherf.111/ios/sys/iprouting/cfg_router_maximum-paths.h,v \$

*-----

* cfg_router_maximum-paths.h

*

* <July> 1994 rchandra

*

* Copyright (c) 1994-2016, 2019 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log: cfg_router_maximum-paths.h,v \$

* Revision 3.2 1995/11/17 17:32:11 hampton

* Remove old entries from the RCS header logs.

*

* Revision 3.1 1995/11/09 12:05:39 shaker

* Bump version numbers from 2.x to 3.x.

*

* Revision 2.1 1995/07/01 12:15:53 tli

* CSCdi36508: Rationalize parser file placement, part I

* Rationalize iprouting

*

* Revision 2.1 1995/06/07 22:12:44 hampton

* Bump version numbers from 1.x to 2.x.

*

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_maximum-paths.h

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

/*-----

* router_af_actions.h

*

* Router Address Family action declarations.

*

* May 2002, Victor Kamensky

*

* Copyright (c) 2002, 2004-2005, 2007-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/router_af_actions.h

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

/*

*-----

* ion_iprouting_cmd_registry.c

*

* September 2001, Rashmi Shrivastava

*

* Copyright (c) 2001, 2003, 2005-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ion_iprouting_cmd_registry.c

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

/*

*-----

* protofltr.h

*

* Routing protocol filter manager Public API definitions

*

* Jan 2006, Mercia Zheng

*

* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/protofltr.h

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

/* \$Id\$

* \$Source\$

*-----

* cfg_router_validate.h

*

* Nob to allow user to decide whether or not system should sanity check

* source IP address of incoming routing updates.

*

```
* March 1994, Bruce Cole
*
* Copyright (c) 1994-2002, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_validate.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: exec_show_route-map.h,v 3.2.60.1 1996/08/12 16:04:13 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/exec_show_route-map.h,v $
*-----
* exec_show_route-map.h
*
* Copyright (c) 1993-1996, 1998, 2003-2008, 2011 by cisco Systems, Inc.
* All rights reserved.
*
* Command parsing chain for "show route-map".
*-----
* $Log: exec_show_route-map.h,v $
* Revision 3.2.60.1 1996/08/12 16:04:13 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:33:31 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:07:29 shaker
* Bump version numbers from 2.x to 3.x.
*
*
* Revision 2.1 1995/07/01 12:16:22 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:25:36 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
```

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/exec_show_route-map.h
No license file was found, but licenses were detected in source scan.

/*

*-----
* routemap_debug.h -- Routemap debugging support
*
* July 1998, Wilber Su
*
* Copyright (c) 1998, 2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_debug.h
No license file was found, but licenses were detected in source scan.

/*

*-----
* exec_debug_routemapapi.h -- Debugging for Route-map API
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003-2004, 2007-2008, 2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/exec_debug_routemapapi.h
No license file was found, but licenses were detected in source scan.

/* \$Id\$

* \$Source\$
*-----
* iprouting_commands.h -- Support for extern command function declaration
*
* September 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2010, 2013, 2016 by cisco Systems, Inc.
* All rights reserved.
*-----
* \$Log\$

```
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-  
tar/iprouting_cmn/internal_inc/iprouting_commands.h
```

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

```
#-----  
# iproutingcmn_router_cmd.run-doxygen -- Run-doxygen Configuration File for  
#           IP Routing Common Router Commands  
#  
# December 2007, Chi Iong Ansjory  
#  
# Copyright (c) 2007-2008, 2012 by cisco Systems, Inc.  
# All rights reserved.  
#-----
```

```
#-----  
# RUN-DOXYGEN CONFIG FILE  
#  
# The variables defined in this file are used by the run-doxygen 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):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/docs/iproutingcmn_router_cmd.run-doxygen
No license file was found, but licenses were detected in source scan.

/*

* P A R S E R _ D E F S _ R O U T E R . H

*

* \$Id: parser_defs_router.h,v 3.1.40.2 1996/07/30 06:56:06 rchandra Exp \$

* \$Source: /release/112/cvs/Xsys/iprouting/parser_defs_router.h,v \$

*

* Copyright (c) 1985-2020 by cisco Systems, Inc.

* All rights reserved.

*

*-----

* \$Log: parser_defs_router.h,v \$

* Revision 3.1.40.2 1996/07/30 06:56:06 rchandra

* CSCdi64489: BGP: private-AS number cannot be removed from AS-path

* Branch: California_branch

* - add 'neighbor x.x.x.x remove-private-AS' command.

* - add 'inbound' keyword to 'neighbor x.x.x.x soft-reconfiguration'

* command (CSCdi64487)

*

* Revision 3.1.40.1 1996/04/16 19:02:10 rchandra

* CSCdi54830: IP features commit

* Branch: California_branch

*

* Revision 3.1 1996/02/01 04:58:48 hampton

* Migrate files out of the parser directory. [CSCdi47717]

* Step 1: Create

copies of the files to be moved in their new location.

*

* Revision 3.2 1995/11/17 18:52:17 hampton

* Remove old entries from the RCS header logs.

*

* Revision 3.1 1995/11/09 12:56:05 shaker

* Bump version numbers from 2.x to 3.x.

*

* Revision 2.4 1995/08/28 21:14:47 rchandra

* CSCdi39436: BGP : Allow conditional unsuppression of suppressed routes

* - add 'neighbor x.x.x.x unsuppress-map <map>' command

*

* Revision 2.3 1995/07/06 23:11:21 rchandra

* CSCdi36759: BGP : Add conditional per neighbor default generation

* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.

*

* Revision 2.2 1995/06/30 20:24:40 rchandra

* CSCdi36620: BGP requires IBGP neighbors to be fully meshed

*

* Revision 2.1 1995/06/07 22:31:08 hampton

* Bump version numbers from 1.x to 2.x.

*

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/parser_defs_router.h

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

/* \$Id: cfg_router_network.h,v 3.2.60.1 1996/08/12 16:03:46 widmer Exp \$

* \$Source: /release/112/cvs/Xsys/iprouting/cfg_router_network.h,v \$

*-----

* C F G _ R O U T E R _ N E T W O R K . H

*

* Copyright (c) 1992-2002, 2004-2009, 2013, 2018 by cisco Systems, Inc.

* All Rights Reserved

*-----

* \$Log: cfg_router_network.h,v \$

* Revision 3.2.60.1 1996/08/12 16:03:46 widmer

* CSCdi65725: Create Eolns macro that defaults csb->which to 0

* Branch: California_branch

* Add Eolns and Nvgenns macro that default csb->which to 0

* Remove hidden keyword help strings

*

* Revision 3.2 1995/11/17 17:32:18 hampton

* Remove old entries from the RCS header logs.

*

* Revision 3.1 1995/11/09 12:05:49 shaker

* Bump version numbers from 2.x to 3.x.

*

* Revision 2.2 1995/09/25 08:30:52

tli

* CSCdi40960: ISP jumbo patch 2

*

* Revision 2.1 1995/07/01 12:15:58 tli

* CSCdi36508: Rationalize parser file placement, part I

* Rationalize iprouting

*

* Revision 2.1 1995/06/07 22:12:56 hampton

* Bump version numbers from 1.x to 2.x.

*

*-----

* \$Endlog\$

*/

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_network.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: exec_show_ip_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:59 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/exec_show_ip_prefixlist.h,v $
*-----
* exec_show_ip_prefixlist.h -- Show IP prefix lists
*
* July 1997 Enke Chen
*
* Copyright (c) 1994-1998, 2000-2001, 2007-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: exec_show_ip_prefixlist.h,v $
* Revision 3.1.2.1 1997/12/17 21:36:59 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:35 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_show_ip_prefixlist.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* routemap_track.h -- Route map support for tracking
*
* March 2003 Shyan Wignarajah
*
* Copyright (c) 2003, 2006-2008, 2010, 2012-2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_track.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* Generic prefix list support - prefix lists private header file
```

*
* March 2002, Siva Yaragalla
*
* Copyright (c) 2002, 2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_private.h
No license file was found, but licenses were detected in source scan.

/*
* \$Id: route_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp \$
* \$Source: /release/112/cvs/Xsys/iprouting/route_map.h,v \$
*-----
* route_map.h
*
* Route map support data structures.
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* \$Log: route_map.h,v \$
* Revision 3.3.12.6 1996/05/04 01:22:42 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.3.12.5 1996/04/16 19:02:23 rchandra
* CSCdi54830: IP features commit
* Branch: California_branch
*
* Revision 3.3.12.4 1996/04/05 03:46:42 rchandra
* CSCdi53755: BGP: flap dampening settings not flexible enough
* Branch: California_branch
* - add route-map support to set flap dampening parameters
*
* Revision 3.3.12.3 1996/04/02 07:29:32 dkatz
* CSCdi52277: Redistribution metric problems with IGRP/EIGRP
* Branch: California_branch
* Always store canonical metrics scaled for IGRP, and make EIGRP do
* its own scaling internally. Get the scaling right in all three
* places.
*
*

- * Revision 3.3.12.2 1996/03/28 23:59:20 rchandra
- * CSCdi52098: BGP: exact keyword not accepted by route-map in community
- * match
- * Branch: California_branch
- * - fix my silly bug in handling exact community matching
- * - limit the range of valid community to 0xFFFF0000
- * - fix a cosmetic bug in show ip community-list
- *
- * Revision 3.3.12.1 1996/03/28 22:28:27 rchandra
- * CSCdi52880: BGP: generate error message for unsupported route-map
- * options
- * Branch: California_branch
- * - generate error message when unsupported route-map option is used
- * - 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 3.3 1996/02/17 01:23:27 myeung
- * CSCdi49210: match tag clause does not work with static routes
- *
- * Revision 3.2 1995/11/17 17:37:17 hampton
- * Remove old entries from the RCS header logs.
- *
- * Revision 3.1 1995/11/09 12:10:38 shaker
- * Bump version numbers from 2.x to 3.x.
- *
- * Revision 2.4 1995/09/25 08:31:20 tli
- * CSCdi40960: ISP jumbo patch 2
- *
- * Revision 2.3 1995/07/12 07:19:12 tli
- * CSCdi36426: Policy routing will not disable on an interface
- * - Policy routed packets were creating fastswitching cache entries.
- * That's not till _next_ release.
- * - Add counters to record packet and byte count on a per
- route map entry
- * basis.
- * - Marketing identified a catastrophic deficiency. Implemented "set ip
- * tos" and "set ip precedence" to cover this deficiency.
- *
- * Revision 2.2 1995/07/06 23:12:41 rchandra
- * CSCdi36759: BGP : Add conditional per neighbor default generation

* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.

*

* Revision 2.1 1995/06/07 21:10:57 hampton

* Bump version numbers from 1.x to 2.x.

*

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route_map.h

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

/* \$Id\$

* \$Source\$

*-----

* 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):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_default.h

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

/*-----

* iprouting_common.h - Basic types for IP routing (IPv4/IPv6)

*

* Contains:

* - address family enum,

* - tableid type and related macros

* - topoid type and related macros

* - private topoid definitions and APIs

* - generic non-routing ID definitions/APIs

*

* Warning: this file should not have any dependency on other header file

* except those where basic C types are defined.

*

* June 2003, Luc Revardel

*

* Copyright (c) 2003-2013, 2016, 2018, 2020 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_common.h
No license file was found, but licenses were detected in source scan.

/*

*-----
* cfg_int_ip2_vnet_routing.h
*
* Interface VNET submode configuration IP commands.
*
* Copyright (c) 2009-2010 by cisco Systems, Inc.
* All rights reserved.
*
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_vnet_routing.h
No license file was found, but licenses were detected in source scan.

/* \$Id\$

* \$Source\$
*-----
* iprouting_init_blob.c -- Partner file (in blob) for iprouting_init.c
*
* 27-August-2001, Fan Kong
*
* Copyright (c) 2001-2011, 2015, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* \$Log\$
*-----
* \$Endlog\$
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_blob.c
No license file was found, but licenses were detected in source scan.

/* \$Id: exec_show_protocols.h,v 3.3.20.1 1996/08/12 16:04:12 widmer Exp \$

* \$Source: /release/112/cvs/Xsys/iprouting/exec_show_protocols.h,v \$
*-----
* EXEC_SHOW_PROTOCOLS.H
*
* Copyright (c) 1992-1996, 2007-2009 by cisco Systems, Inc.
* All Rights Reserved

```

*-----
* $Log: exec_show_protocols.h,v $
* Revision 3.3.20.1 1996/08/12 16:04:12 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3 1996/01/29 07:08:56 hampton
* Remove command number arguments passed to parse routines that only
* perform a single function. [CSCdi47717]
*
* Revision 3.2 1995/11/17 17:33:30 hampton
* Remove old entries from
the RCS header logs.
*
* Revision 3.1 1995/11/09 12:07:27 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:21 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:25:21 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_show_protocols.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* IP routing show commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2003, 2005, 2007-2011, 2013, 2015-2020 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log$
*-----
* $Endlog$

```

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_show_ip_routing.h

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

```
!-----
! iproutingcmn_router_cmd.sesut - IPv4 Routing Common Router
!   Commands Unit Test Routines
!
! December 2007, Chi Iong Ansjory
!
! Copyright (c) 2007 by cisco Systems, Inc.
! All rights reserved.
!-----
! Sample unit test description file.
! This file is used for generation of unit test module by SESUT.
! See http://wwwin-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>: - Begining 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 immediately following this line but before
! entering any edge description.
! -><nodeIdentifier>: - Beginning of an edge description. This describes an
! edge from the node to <n>
! Choose <nodeIdentifier> to be descriptive. Examples: AVLTreeInsert,
! DBSearch, DetachLine
!

These identifiers are used during runtime to present execution times
! and other data.

! You can specify parameters for your unit test as follows:

!parameters:(uint interface, char* hostname="abc", uint subInterface=1)

!This should come before the line specifying the start node.

!The parameters can be used in the code for nodes/edges. The values

!for parameters are received via CLI or as a result of direct invocation of

!the generated function. Parameters can be of type 'uint'

!or 'char*'. If values for parameters are provided on CLI defaults are used.

! You should provide default values. If default values are not specified

! then the tool would assign default values. If the type is "uint" the

! default value is 0. Else(type char*) the default value is "".

! During automation the default values are used. Use descriptive names

! for parameters.

start node StartNode

! You can place initialization code that needs to be executed

! prior to entering the start node here.

node StartNode:

!

===== 6 APIs from ip_stats.h/ip_registry.reg =====

! 1. DEFINE show_ip_interface_with_topo

(void) sesut_execcommand(FALSE, "show ip interface e0/0 topology base stats");

printf("\n----- SESUT Test Reg: show_ip_interface_with_topo -----");

! 2. DEFINE clear_ip_interface_with_topo

(void) sesut_execcommand(FALSE, "clear ip interface e0/0 topology base stats");

printf("\n----- SESUT Test Reg: clear_ip_interface_with_topo -----");

! 3. DEFINE show_ip_traffic_with_topo

(void) sesut_execcommand(FALSE, "show ip traffic topology base");

printf("\n----- SESUT Test Reg: show_ip_traffic_with_topo -----");

! 4. DEFINE clear_ip_traffic_with_topo

(void) sesut_execcommand(FALSE, "clear ip traffic topology base");

printf("\n----- SESUT Test: clear_ip_traffic_with_topo -----");


```

! 5. DEFINE show_ip_interface_stats

(void) sesut_execcommand(FALSE, "show ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: show_ip_interface_stats -----");

! 6. DEFINE clear_ip_interface_stats

(void) sesut_execcommand(FALSE,
"clear ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: clear_ip_interface_stats -----");

! ===== 2 APIs from iprouting_debug.h =====

! 1. void
!  iprouting_debug_arr_ios_set_csb(struct parseinfo_ *csb);

!iprouting_debug_arr_ios_set_csb(NULL);
printf("\n----- SESUT Test: iprouting_debug_arr_ios_set_csb() -----");

! 2. void
!  iprouting_ios_call_debug_cmd(struct parseinfo_ *csb);

!iprouting_ios_call_debug_cmd(NULL);
printf("\n----- SESUT Test: iprouting_ios_call_debug_cmd() -----");

! ===== 1 API from router_af_actions_registry.reg =====

! 1. DEFINE address_family_action_named_router REMOTE 3

sesrc = reg_invoke_address_family_action_named_router(NULL);
printf("\n----- SESUT Test Reg: address_family_action_named_router -----");

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/test/iproutingcmn_router_cmd.sesut

```

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

```

/*-----
* route3_ionized.c
*
* ION specific route3.c parser functions.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
*-----

```

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route3_ionized.c
No license file was found, but licenses were detected in source scan.

/* \$Id\$

* \$Source\$

*-----

* Registry for IP routing infrastructure in ION

*

* September 2001, Fan Kong

*

* Copyright (c) 2001-2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_registry.h
No license file was found, but licenses were detected in source scan.

/* \$Id: route_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp \$

* \$Source: /release/112/cvs/Xsys/iprouting/route_map.h,v \$

*-----

* policylist.h -- Policy list support data structures

*

* April 2000, Rex Fernando

*

* Copyright (c) 2000, 2002-2003, 2005, 2007-2011 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/policylist.h
No license file was found, but licenses were detected in source scan.

/* \$Id\$

* \$Source\$

*-----

* cfg_routemap_set.h

*

* Process route-map set subcommands.

*

* Copyright (c) 1992-1998, 2001-2003, 2007-2019 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_set.h

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

/*

*-----

* routemap_ios_chain.c -- Route-map generic ios parse chains that

* will be in both RP and VIP/LC

*

* July 1998, Wilber Su

*

* Copyright (c) 1998, 2004-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_ios_chain.c

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

/* \$Id: cfg_router_distance.h,v 3.2.60.1 1996/05/04 01:21:16 wilber Exp \$

* \$Source: /release/112/cvs/Xsys/iprouting/cfg_router_distance.h,v \$

*-----

* C F G _ R O U T E R _ D I S T A N C E . H

*

* The bgp version must come before the weight version so that both NVGEN

* and normal processing happen correctly.

*

* Copyright (c) 1992-1999, 2001-2010, 2015-2016, 2019-2020 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log: cfg_router_distance.h,v \$

* Revision 3.2.60.1 1996/05/04 01:21:16 wilber

* Branch: California_branch

*

* Constrained Multicast Flooding

* - Define MOSPF hello option bit.

*

* Name Access List

*

```

* Revision 3.2 1995/11/17 17:32:05 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:29 shaker
* Bump version
  numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:50 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:30 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_distance.h
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* protofltr_debug.c - Debug functions for protocol filter manager
*
* Mercia Zheng, Jan 2006
*
* Copyright (c) 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug.c
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* cfg_router_topology.h - router topology configuration mode command
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2005, 2007-2009, 2013 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology.h

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

/*

*-----

* iprouting_init_ionblob.c -- IP Routing Init code for blog in ION only

*

* October 2001, Rashmi Shrivastava

*

* Copyright (c) 2001-2017 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ionblob.c

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

/* \$Id\$

* \$Source\$

*-----

* Registry for routing context for RP and LC common code.

*

* September 2009, Derek Yeung

*

* Copyright (c) 2009 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-

tar/iprouting_cmn/include/routing_context_registry.h

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

/* \$Id\$

* \$Source\$

*-----

* Address Family configuration mode commands.

*

* April 1998, Bob Thomas

*

* Copyright (c) 1998-1999, 2007-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_af_mode.h

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

/*-----

* ip_stats.h - IP for topology aware stats

*

* Feburary 2006, Jonsky Hsu

*

* Copyright (c) 2006-2008 by cisco Systems, Inc.

* All rights reserved.

*

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/ip_stats.h

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

/*

*-----

* protofltr_debug_flags.h -- Protofltr manager debug flags declarations

*

* Jan 2006, Mercia Zheng

*

* Copyright (c) 2005-2008 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug_flags.h

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

/*

*-----

* route_map_ionized.c - Route Maps support for IONized processes

*

* July 2001, Siva Yaragalla

*

*

* Route map subsystem for IOS style processes.
*
* Copyright (c) 2001-2009, 2011, 2016-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_ionized.c
No license file was found, but licenses were detected in source scan.

/*-----
* iprouting_actions_registry.h
*
* Router address family actions registry.
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002-2003, 2007-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/router_af_actions_registry.h
No license file was found, but licenses were detected in source scan.

/* \$Id\$
* \$Source\$
*-----
* C F G _ R O U T E R _ T A B L E - M A P . H
*
* Copyright (c) 1993-1996, 1999, 2001, 2003, 2005-2019 by cisco Systems, Inc.
* All Rights Reserved
*-----
* \$Log\$
*-----
* \$Endlog\$
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_table-map.h
No license file was found, but licenses were detected in source scan.

/* \$Id\$
* \$Source\$
*-----

* routing_context_registry.c

*

* September 2009, Derek Yeung

*

* Copyright (c) 2009 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routing_context_registry.c

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

/* \$Id: iprouting_actions.h,v 3.2 1995/11/17 17:34:39 hampton Exp \$

* \$Source: /swtal/cherf.111/ios/sys/iprouting/iprouting_actions.h,v \$

*-----

* IP routing specific parsing functions.

*

* August 1994, Bruce Cole

*

* Copyright (c) 1994, 2004-2008, 2015 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log: iprouting_actions.h,v \$

* Revision 3.2 1995/11/17 17:34:39 hampton

* Remove old entries from the RCS header logs.

*

* Revision 3.1 1995/11/09 12:08:30 shaker

* Bump version numbers from 2.x to 3.x.

*

* Revision 2.1 1995/06/07 21:07:35 hampton

* Bump version numbers from 1.x to 2.x.

*

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/iprouting_actions.h

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

/*-----

* routemap_api.c -- Dynamic routemap APIs.

*

* May 2003, Tanya Shastri

*
* Copyright (c) 2003, 2005-2015, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_api.c
No license file was found, but licenses were detected in source scan.

/*
*-----
* router_topology_parse.h
*
* Router topology parser functions declarations.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/router_topology_parse.h
No license file was found, but licenses were detected in source scan.

/* \$Id: exec_debug_ip_routing.h,v 3.3.20.1 1996/06/27 04:40:57 mikel Exp \$
* \$Source: /release/112/cvs/Xsys/iprouting/exec_debug_ip_routing.h,v \$
*-----
* IP routing debug commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2003, 2005-2009, 2019 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* \$Log: exec_debug_ip_routing.h,v \$
* Revision 3.3.20.1 1996/06/27 04:40:57 mikel
* CSCdi37749: <debug ip eigrp> help wrong
* Branch: California_branch
* clean up ip-eigrp AS debugging
*
* Revision 3.3 1996/02/01 23:34:07 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:33:17 hampton

```

* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:07:09 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/11/08 21:06:22 shaker
* Merge Arkansas_branch into 11.1 mainline.
*
* Revision 2.1 1995/07/01 12:16:15 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:18:58 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_debug_ip_routing.h
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* protofltr_public.h
*
* Routing protocol filter manager Public API definitions
*
* Dec 2008, Mercia Zheng
*
* Copyright (c) 2008-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/protofltr_public.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: cfg_routemap_exit.h,v 3.2.60.1 1996/08/12 16:03:34 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_routemap_exit.h,v $
*-----
* cfg_routemap_exit.h
*
* exit - exit from route-map configuration mode
*
* Copyright (c) 1992-1996, 2007-2009 by cisco Systems, Inc.

```

* All Rights Reserved

*-----

* \$Log: cfg_routemap_exit.h,v \$

* Revision 3.2.60.1 1996/08/12 16:03:34 widmer

* CSCdi65725: Create Eolns macro that defaults csb->which to 0

* Branch: California_branch

* Add Eolns and Nvgenns macro that default csb->which to 0

* Remove hidden keyword help strings

*

* Revision 3.2 1995/11/17 17:31:42 hampton

* Remove old entries from the RCS header logs.

*

* Revision 3.1 1995/11/09 12:05:03 shaker

* Bump version numbers from 2.x to 3.x.

*

* Revision 2.1 1995/07/01

12:15:44 tli

* CSCdi36508: Rationalize parser file placement, part I

* Rationalize iprouting

*

* Revision 2.1 1995/06/07 22:12:09 hampton

* Bump version numbers from 1.x to 2.x.

*

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_exit.h

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

/*

*-----

* iprouting_parser_macros.h - Routing macros moved out of

* sys/parser/macros.h

*

* November, 2004

*

* Copyright (c) 2004-2011, 2013, 2015, 2018 by cisco Systems, Inc.

* All rights reserved.

*-----

*

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-

tar/iprouting_cmn/include/iprouting_parser_macros.h

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

```
/* $Id: cfg_router_traffic-share.h,v 3.3.20.1 1996/08/12 16:03:58 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_traffic-share.h,v $
*-----
* cfg_router_traffic-share.h - parsing of the traffic-share command
*
* Oct 1993 Tony Li
*
* Copyright (c) 1993-1999, 2001-2002, 2004-2009, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: cfg_router_traffic-share.h,v $
* Revision 3.3.20.1 1996/08/12 16:03:58 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3 1996/02/01 23:34:03 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:32:35 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:06:21 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:07 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:13:22 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_traffic-
share.h
```

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

```
/* $Id$
* $Source$
*-----
* route.h -- IP routing definitions
```

```
*
* 22-March-1986, Kirk Lougheed
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route.h
No license file was found, but licenses were detected in source scan.

```
/*
*-----
* routemap_ios_blob.c -- Route map support routines that can be shared
* by RP and VIP/LC
*
* October 14, 2001 Siva Yaragalla
*
* Copyright (c) 2001-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_ios_blob.c
No license file was found, but licenses were detected in source scan.

```
/*
*-----
* protofltr_debug.h -- Routing protocol filter manager debug flag
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2008 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
```

```
* $Source$
*-----
* route3.c -- Routing Support: Router command and related routines
*
* 15-June-1987, Kirk Lougheed
*
* Copyright (c) 1987-2021 by cisco Systems, Inc.
* All rights reserved.
```

```
* $Log$
*-----
```

```
* $Endlog$
```

```
*/
```

```
/*
```

```
    * If its not a per-user distribute-list, we have to configure the
    * route-map for pflist_def too - its used to restore default when
    * a per-user distribute-list is un-configured as well as for
    * nvgen purposes. All this mess, only for the interface specific
    * version.
```

```
    */
```

```
/*
```

```
    * This command is only valid for ipv4 and nsap AFs in BGP.
    * However it is accepted for other BGP AFs
    * for backwards compatibility. However, no action
    * is taken for these
```

```
AFs and it is not nvgen'ed
```

```
    * either. Check out cfg_router_default.h for
    * more details.
```

```
    */
```

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

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route3.c
```

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

```
/*
```

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

```
* cfg_router_maximum-paths.h
```

```
*/
```

```
* 22-May-2016, Les Ginsberg
```

```
*/
```

```
* Copyright (c) 2016 by cisco Systems, Inc.
```

```
* All rights reserved.
```

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

```
*/
```

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

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-  
tar/iprouting_cmn/internal_inc/cfg_router_maximum-sec-paths.h
```

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

```
/* $Id: cfg_router_metric.h,v 3.2 1995/11/17 17:32:13 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/cfg_router_metric.h,v $
*-----
* C F G _ R O U T E R _ M E T R I C . H
*
* Copyright (c) 1992-2002, 2004, 2006-2009 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_metric.h,v $
* Revision 3.2 1995/11/17 17:32:13 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:41 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:54 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:46 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_metric.h
```

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

```
/* $Id: ip_routing.h,v 3.2 1995/11/17 17:34:12 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/ip_routing.h,v $
*-----
* ip_routing.h -- Generic IP routing declarations
*
* Mar 1995 Tony Li
*
* Copyright (c) 1995, 1998, 2004, 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: ip_routing.h,v $
* Revision 3.2 1995/11/17 17:34:12 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:06 shaker
* Bump version numbers from 2.x to 3.x.
```

*
* Revision 2.1 1995/06/07 21:07:05 hampton
* Bump version numbers from 1.x to 2.x.

*
*-----
* \$Endlog\$
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/ip_routing.h
No license file was found, but licenses were detected in source scan.

/* \$Id\$
* \$Source\$
*-----
* Exit from BGP Address Family mode.
*
* Sept 1998, Bob Thomas
*
* Copyright (c) 1998-1999, 2007-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* \$Log\$
*-----
* \$Endlog\$
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_af_exit.h
No license file was found, but licenses were detected in source scan.

/*
*-----
* iprouting_debug.h -- Debugging declarations for IP routing
*
* May 1993, John Bashinski
*
* Copyright (c) 1993-2010 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_debug.h
No license file was found, but licenses were detected in source scan.

/* \$Id: cfg_router_offset.h,v 3.3.20.4 1996/09/04 23:46:26 mikel Exp \$
* \$Source: /release/112/cvs/Xsys/iprouting/cfg_router_offset.h,v \$


```

*-----
* CFG_ROUTER_OFFSET.H
*
* Copyright (c) 1992-1998, 2002, 2004-2008 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_offset.h,v $
* Revision 3.3.20.4 1996/09/04 23:46:26 mikel
* CSCdi65889: offset-list doesnt work for EIGRP
* Branch: California_branch
* Re-enable offset-list command as well as adding offset-list out support,
* and fix offset-list to work with access-lists
*
* Revision 3.3.20.3 1996/08/12 16:03:48 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword
help strings
*
* Revision 3.3.20.2 1996/05/04 01:21:23 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.3.20.1 1996/04/09 05:54:35 mikel
* CSCdi49628: EIGRP ignores outgoing offset-list
* Branch: California_branch
* disable offset-list command from eigrp router config
*
* Revision 3.3 1996/02/01 23:33:59 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:32:19 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:53 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:58 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:58 hampton
* Bump version numbers from 1.x to 2.x.

```

```
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
*
/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_offset.h
No license file was found, but licenses were detected in source scan.
```

```
#
#-----
# iprouting_api.enum - IP Routing public API enum definitions
#
# August 2009, Prashant Srinivas
#
# Copyright (c) 2009-2010 by cisco Systems, Inc.
# All rights reserved.
#-----
#
```

BEGIN 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):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/enum/iprouting_api.enum
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* routemap_track.c -- Route map support for tracking
*   Functions which run on RP (not VIP).
*
```

* March 2003 Shyan Wignarajah
*
* Copyright (c) 2003-2008, 2013-2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_track.c
No license file was found, but licenses were detected in source scan.

/* \$Id
* \$Source
*-----
* iprib_api_svr.c -- IP Routing Information Base (RIB) API definitions
*
* August-2001, Fan Kong
*
* Copyright (c) 2001-2012, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* \$Log
*-----
* \$Endlog\$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprib_api_svr.c
No license file was found, but licenses were detected in source scan.

/*-----
* router_topology_registry.h
*
* Router topology registry.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/router_topology_registry.h
No license file was found, but licenses were detected in source scan.

/*

```
*-----
* iprouting_parser_linkpoints.c - iprouting parser linkpoint defs.
*
* April, 2005
*
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_parser_linkpoints.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routing_context_chain.c
*
* Parse chain file for routing context support.
*
* March 2009, Derek Yeung
*
* Copyright (c) 2009, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routing_context_chain.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* cfg_routemap_match.h
*
* Process route-map match subcommands.
*
* Copyright (c) 1992-1999, 2002-2005, 2007-2012, 2018 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_match.h
```

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

```
##
## content.lst file for iprouting_cmn
## See EDCS-905060 for more details.
##
## Oct 2010, Manu Pathak
##
## Copyright (c) 2010-2011, 2016 by cisco Systems, Inc.
## All rights reserved.
##

syntax: 1.0.0

# iprouting_cmn meta-source files
group: iprouting_cmn-generic
{
  enum:
    iprouting_cmn/include/enum/iprouting_api.enum

  reg:
    iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
    iprouting_cmn/include/reg/iprouting_registry.reg
    iprouting_cmn/include/reg/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/iprib_api_svr.c
    iprouting_cmn/src/iprouting_init.c
    iprouting_cmn/src/iprouting_stats.c
    iprouting_cmn/src/protofltr.c
    iprouting_cmn/src/route1.c
    iprouting_cmn/src/route2.c
    iprouting_cmn/src/route3.c
    iprouting_cmn/src/router_af_parse.c
    iprouting_cmn/src/router_topology_parse.c
}
sub: iprouting_parser
{
    contains:
    iprouting_cmn/src/iprouting_parser_linkpoints.c
}
sub: iprouting_registry
{
    contains:
    iprouting_cmn/src/iprouting_registry.c
}
sub: ipv4_subsys
{
    contains:
    iprouting_cmn/src/ipv4_subsys.c
}
sub: lfafr_registry
{
    contains:
    iprouting_cmn/src/lfafr_registry.c
}
sub: route_map_globs
{
    contains:
    iprouting_cmn/src/route_map_globs.c
}
sub: route_map_registry
{
    contains:
    iprouting_cmn/src/route_map_registry.c
}
sub: routemap_common_blob
{

```



```

contains:
  iprouting_cmn/src/routemap_ios_blob.c
}
sub: routemap_common_ionized
{
  context: os==ion
  contains:
    iprouting_cmn/src/route_map_http_ion.c
}
sub: routemap_common_nonblob
{
  contains:
    iprouting_cmn/src/routemap_ios.c
    iprouting_cmn/src/routemap_track_ios.c
}
sub: routemap_ios_chain
{
  contains:
    iprouting_cmn/src/routemap_ios_chain.c
}
sub: routemap_lc_ipc
{
  context: os==ios
  contains:
    iprouting_cmn/src/route_map_globs.c
    iprouting_cmn/src/routemap_api.c
    iprouting_cmn/src/routemap_api_util.c
    iprouting_cmn/src/routemap_debug.c
    iprouting_cmn/src/routemap_internal.c
    iprouting_cmn/src/routemap_ios_chain.c
    iprouting_cmn/src/routetag_list.c
}
sub: router_af_actions_registry
{
  contains:
    iprouting_cmn/src/router_af_actions_registry.c
}
sub: router_topology_registry
{
  contains:
    iprouting_cmn/src/router_topology_registry.c
}
sub: routing_context
{
  contains:
    iprouting_cmn/src/routing_context.c
}
sub: routing_context_registry

```

```
{
  contains:
    iprouting_cmn/src/routing_context_registry.c
}
}
# end of group: iprouting_cmn
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/content.lst

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

```
/* $Id$
* $Source$
*-----
* route1.c -- Routing Support: Common Routines
*
* 22-March-1986, Kirk Lougheed
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route1.c

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

```
/*
*
*-----
* Generic tag list support.
*
* June 2011, Karthik Subramaniam
*
* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routetag_list.c

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

```
/* $Id: cfg_routemap_match_policy.h,v 3.3 1995/11/28 19:50:34 widmer Exp $
* $Source: /swt/cherf.111/ios/sys/iprouting/cfg_routemap_match_policy.h,v $
```

```
*-----
* cfg_routemap_match_policy.h -- Route map match clauses for policy
* routing.
*
* Mar 1995 Tony Li
*
* Copyright (c) 1995, 2001-2002, 2007-2009, 2014-2015 by cisco Systems, Inc.
* All rights reserved.
```

```
*-----
* $Log: cfg_routemap_match_policy.h,v $
* Revision 3.3 1995/11/28 19:50:34 widmer
* CSCdi44251: Replace Ifelse(csb->in_help)/Eval with Func
*
* Revision 3.2 1995/11/17 17:31:48 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:10 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.3 1995/06/21 18:16:00 widmer
* CSCdi36227: Fix parse chain alternates
*
* Revision 2.2 1995/06/15 15:18:44 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.1 1995/06/07 21:05:32 hampton
* Bump version numbers from 1.x to 2.x.
```

```
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/cfg_routemap_match_policy.h
```

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

```
/*
```

```
*-----
* exec_debug_protofltr.h
```

```
*
* Jan 2006, Mercia Zheng
```

```
*
* Copyright (c) 2005-2009 by cisco Systems, Inc.
```

```
*
* All Rights Reserved
*-----
```

```
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_debug_protofltr.h

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

/*-----

* route3_parse.h

*

* Route parser functions declarations.

*

* March 2002, Victor Kamensky

*

* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/route3_parse.h

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

/* \$Id: cfg_int_ip2_routing.h,v 3.2.60.1 1996/08/12 16:03:24 widmer Exp \$

* \$Source: /release/112/cvs/Xsys/iprouting/cfg_int_ip2_routing.h,v \$

/*-----

* cfg_int_ip2_routing.h

*

* May 1994, Derek Yeung

*

* Copyright (c) 1993-1996, 1998-1999, 2007-2009 by cisco Systems, Inc.

* All rights reserved.

*

* IP routing interface commands that must be after the encapsulation command

* in NV order.

/*-----

* \$Log: cfg_int_ip2_routing.h,v \$

* Revision 3.2.60.1 1996/08/12 16:03:24 widmer

* CSCdi65725: Create Eolns macro that defaults csb->which to 0

* Branch: California_branch

* Add Eolns and Nvgenns macro that default csb->which to 0

* Remove hidden keyword help strings

*

* Revision 3.2 1995/11/17 17:31:23 hampton

* Remove old entries from the RCS header logs.

*

* Revision 3.1 1995/11/09

12:04:31 shaker

* Bump version numbers from 2.x to 3.x.

*

```

* Revision 2.2 1995/08/04 03:07:45 dstine
* CSCdi37681: Need event logging for EIGRP
*
* Revision 2.1 1995/07/01 12:15:32 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:05:27 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_routing.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: rouource_commande_map.c,v 3.4.10.11 1996/07/09 07:35:58 dawnli Exp $
* $Source: /release/112/cvs/Xsys/iprouting/route_map.c,v $
*-----
* route_map.c -- Route map support routines.
*
* 23-January-1993
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: route_map.c,v $
* Revision 3.4.10.11 1996/07/09 07:35:58 dawnli
* CSCdi57006: route-map in configuration are stored/displayed in reverse
* order
* Branch: California_branch
*
* Revision 3.4.10.10 1996/06/28 23:19:51 hampton
* Remove gratuitous casting. [CSCdi61655]
* Branch: California_branch
*
* Revision 3.4.10.9 1996/06/05 08:27:06 rchandra
* CSCdi59547: Routemap: %SYS-4-REGEXP: NULL string parameter error
* Branch: California_branch
* - do not pass null path to route_map_match_aspath
*
* Revision 3.4.10.8 1996/06/03 23:24:12 ahh
* CSCdi59119: IP: NAT should support named access-lists
* And extended access-lists and non-contiguous address pools.
* Branch: California_branch
*

```

- * Revision 3.4.10.7 1996/05/04 01:22:39 wilber
- * Branch: California_branch
- *
- * Constrained Multicast Flooding
- * - Define MOSPF hello option bit.
- *
- * Name Access List
- *
- * Revision 3.4.10.6 1996/04/16 19:02:21 rchandra
- * CSCdi54830: IP features commit
- * Branch: California_branch
- *
- * Revision 3.4.10.5 1996/04/05 03:46:40 rchandra
- * CSCdi53755: BGP: flap dampening settings not flexible enough
- * Branch: California_branch
- * - add route-map support to set flap dampening parameters
- *
- * Revision 3.4.10.4 1996/04/02 07:29:30 dkatz
- * CSCdi52277: Redistribution metric problems with IGRP/EIGRP
- * Branch: California_branch
- * Always store canonical metrics scaled for IGRP, and make EIGRP do
- * its own scaling internally. Get the scaling right in all
- three
- * places.
- *
- * Revision 3.4.10.3 1996/03/28 23:59:18 rchandra
- * CSCdi52098: BGP: exact keyword not accepted by route-map in community
- * match
- * Branch: California_branch
- * - fix my silly bug in handling exact community matching
- * - limit the range of valid community to 0xFFFF0000
- * - fix a cosmetic bug in show ip community-list
- *
- * Revision 3.4.10.2 1996/03/28 22:28:25 rchandra
- * CSCdi52880: BGP: generate error message for unsupported route-map
- * options
- * Branch: California_branch
- * - generate error message when unsupported route-map option is used
- * - treat confederation EBGp neighbors similar to internal neighbors in
- * best path selection
- * - fix the bug in bgp_compare_med, so that during MED comparison,
- * confederation information is skipped properly
- * - confederation EBGp paths should be inserted into the IP table with
- * internal distance
- * - do not consider common-AS neighbors as confederation neighbors
- * - during 'clear ip bgp dampening'
- avoid skipping paths
- * - undo the patch to the radix version walker

*
 * Revision 3.4.10.1 1996/03/18 20:29:32 gstovall
 * Branch: California_branch
 * Elvis has left the building. He headed out to California, and took the
 * port ready changes with him.
 *
 * Revision 3.2.26.3 1996/03/16 06:58:25 gstovall
 * Branch: DeadKingOnAThrone_branch
 * Make the king aware of V111_1_3.
 *
 * Revision 3.2.26.2 1996/03/07 09:50:41 mdb
 * Branch: DeadKingOnAThrone_branch
 * cisco and ANSI/POSIX libraries.
 *
 * Revision 3.2.26.1 1996/02/20 01:04:27 dstine
 * Branch: DeadKingOnAThrone_branch
 * Sync from DeadKingOnAThrone_baseline_960122 to
 * DeadKingOnAThrone_baseline_960213
 *
 * Revision 3.4 1996/02/24 02:01:55 pst
 * CSCdi49774: modularize regexp's for bgp (part 3)
 *
 * Revision 3.3 1996/02/01 06:06:17 hampton
 * Migrate files out of the parser directory. [CSCdi47717]
 * Step 2: Change all files which reference the moved parser files to
 *
 * point to their new locations.
 *
 * Revision 3.2 1995/11/17 17:37:13 hampton
 * Remove old entries from the RCS header logs.
 *
 * Revision 3.1 1995/11/09 12:10:35 shaker
 * Bump version numbers from 2.x to 3.x.
 *
 * Revision 2.6 1995/09/25 08:31:19 tli
 * CSCdi40960: ISP jumbo patch 2
 *
 * Revision 2.5 1995/07/06 23:12:39 rchandra
 * CSCdi36759: BGP : Add conditional per neighbor default generation
 * - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
 *
 * Revision 2.4 1995/06/23 14:26:05 widmer
 * CSCdi36318: multiple route-map commands are not accepted
 * Fix route-map command NV generation
 *
 * Revision 2.3 1995/06/15 15:18:52 widmer
 * CSCdi35889: parser transition structures should be static
 *

* Revision 2.2 1995/06/08 08:59:19 tli
* CSCdi35274: route-map test-1 crashes IOS
* - If a route map does not set any routing information, it should be
* equivalent to not having policy routed the packet.
* - "match length" clauses
were having their flag stepped on because the
* flag update routine didn't know about the clause.
*

* Revision 2.1 1995/06/07 21:10:53 hampton
* Bump version numbers from 1.x to 2.x.
*

*-----
* \$Endlog\$
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map.c
No license file was found, but licenses were detected in source scan.

/*-----
* router_af_parse.h
*
* Route Address Family parser functions declarations.
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/router_af_parse.h
No license file was found, but licenses were detected in source scan.

/* \$Id\$
* \$Source\$
*-----
* Registry for IP FRR infrastructure
*
* July 6, 2010 Ahmed Bashandy
*
* Copyright (c) 2001-2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* \$Log\$
*-----
* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/lfafrr_registry.h
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* cfg_route_map.h
*
* Enter route-map subcommand mode
*
* Copyright (c) 1992-1996, 2001-2002, 2007-2010, 2017 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_route_map.h
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* exec_show_ip_extcommunity-list.h
*
* April 2000, Rex Fernando
*
* Copyright (c) 2000, 2002-2003, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Endlog$
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/exec_show_ip_policylist.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cfg_routemap_set_ip_policy.h,v 3.3.52.1 1996/06/18 19:06:39 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_routemap_set_ip_policy.h,v $
*-----
* cfg_routemap_set_ip_policy.h -- IP policy specific route map clauses
*

```

```

* Mar 1995 Tony Li
*
* Copyright (c) 1995-1998, 2000, 2002, 2004, 2007-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: cfg_routemap_set_ip_policy.h,v $
* Revision 3.3.52.1 1996/06/18 19:06:39 widmer
* CSCdi59706: parser lets you set tos/precedence bits forever (input
* loop)
* Branch: California_branch
*
* Revision 3.3 1995/11/28 19:50:38 widmer
* CSCdi44251: Replace Ifelse(csb->in_help)/Eval with Func
*
* Revision 3.2 1995/11/17 17:31:53 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09
12:05:16 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.5 1995/08/16 01:01:15 tli
* CSCdi38512: Policy: TOS and precedence long help says match instead of
* set
*
* Revision 2.4 1995/07/12 07:19:09 tli
* CSCdi36426: Policy routing will not disable on an interface
* - Policy routed packets were creating fastswitching cache entries.
* That's not till _next_ release.
* - Add counters to record packet and byte count on a per route map entry
* basis.
* - Marketing identified a catastrophic deficiency. Implemented "set ip
* tos" and "set ip precedence" to cover this deficiency.
*
* Revision 2.3 1995/06/21 18:16:02 widmer
* CSCdi36227: Fix parse chain alternates
*
* Revision 2.2 1995/06/15 15:18:47 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.1 1995/06/07 21:05:39 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
*
$Endlog$
*/

```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/cfg_routermap_set_ip_policy.h

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

/* \$Id: cfg_router_passive-interface.h,v 3.2.60.1 1996/08/12 16:03:49 widmer Exp \$

* \$Source: /release/112/cvs/Xsys/iprouting/cfg_router_passive-interface.h,v \$

* -----

* C F G _ R O U T E R _ P A S S I V E _ I N T . H

*

* Copyright (c) 1992-1999, 2001-2010, 2018 by cisco Systems, Inc.

* All Rights Reserved

* -----

* \$Log: cfg_router_passive-interface.h,v \$

* -----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_passive-interface.h

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

/*

* -----

* routemap_debug.c -- Routemap debugging support

*

* July 1998, Wilber Su

*

* Copyright (c) 1998, 2004, 2006-2008 by cisco Systems, Inc.

* All rights reserved.

* -----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_debug.c

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

/*

* -----

* 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):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/src/cfg_router_topo_redistribute.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* route_map_ionblob.c -- Route Maps support for ION Blob
*
* October 2001, Siva Yaragalla
*
* Copyright (c) 2001-2009, 2011, 2013, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_ionblob.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* router_af_parse_blob.c
*
* Address family submode command - proxy EOLs
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002-2005, 2007-2009 by cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_af_parse_blob.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* topo_aware.h - Define multi-topology awareness
*
* March 2005, Les Ginsberg
*
```

* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/topo_aware.h

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

/* \$Id\$

* \$Source\$

*-----

*

* parser_defs_route_map.h

*

* Constant definition for route-map command and associated subcommands.

*

* Copyright (c) 1985-1996, 1999, 2001, 2004-2005, 2007-2008, 2011, 2014-2015 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/parser_defs_route_map.h

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

/* \$Id\$

* \$Source\$

*-----

* Parse chains for router Address Family mode

*

* June 2002, Donnie Savage

*

* Copyright (c) 1998-2011, 2013-2014, 2016, 2018-2019 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_af_chain.c

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

```

/*
*-----
* exec_debug_routemap.h -- Debugging for Route-map IPC
*
* July 1998, Wilber Su
*
* Copyright (c) 1998, 2001-2002, 2004-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/exec_debug_routemap.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: exec_clear_ip_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:58 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/exec_clear_ip_prefixlist.h,v $
*-----
* exec_clear_ip_prefixlist.h
*
* July 1997, Enke Chen
*
* Copyright (c) 1995-1998, 2000-2001, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: exec_clear_ip_prefixlist.h,v $
* Revision 3.1.2.1 1997/12/17 21:36:58 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:34 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_clear_ip_prefixlist.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* iprouting_blob_undef.c -- undefined symbols from blob when
* routing subsystems are pulled out
*
* October, 2002 Phil Winterfield

```

```
*
* Copyright (c) 2001-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_blob_undef.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* iprouting_cmn.c
*
* This file has global definitions common to blob and iprouting proceses.
*
* Copyright (c) 2002-2009, 2011, 2013 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_cmn.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: ip_prefixlist.c,v 1.1 2011/02/02 21:47:40 vkoshi Exp vkoshi $
* $Source: /view/vkoshi-
comp_routing_rel5.rel4_1_1_19.2460.ss.comp1.port/vob/ss.comp1/routing/iprouting_cmn/src/ip_prefixlist.c,v $
*-----
* Generic prefix list support.
*
* June 1997, Enke Chen
*
* Copyright (c) 1997-2012, 2016, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: ip_prefixlist.c,v $
* Revision 1.1 2011/02/02 21:47:40 vkoshi
* checkin by port_commit
*
* Revision 3.1.2.4 1998/03/20 17:03:32 enkechen
* CSCdj88889: Prefix-list: sho ip prefix-list summ does not pause
* Branch: FIB_branch
*
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
```

```

* Branch: FIB_branch
*
* Revision 3.1.2.2 1998/02/11 01:55:32 soma
* Merge FIB_L3 branch into FIB branch
*
* Revision 3.1.2.1.8.1 1998/01/29 00:59:02 enkechen
* CSCdj77190: Prefix-list: mishandling of long prefix-list names
* Branch: FIB_L3_branch
*
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:33 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist.c
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: cfg_router_redistribute.h,v 3.4.20.3 1996/08/12 16:03:50 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_redistribute.h,v $
*-----
* 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):

```

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_redistribute.h
No license file was found, but licenses were detected in source scan.

```

```

/*

```



```
*-----
* iprouting_DEBUG_FLAG_BBs.h -- Debugging flag declarations for IP routing
*
* May 1993, John Bashinski
*
* Copyright (c) 1993-2011, 2013, 2015, 2018-2020 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_debug_flags.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* iprouting_parser.h -- IP routing parser API header file
*
* April - 2007, Selva Subramanian
*
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_parser.h
No license file was found, but licenses were detected in source scan.
```

```
# $Id$
#
#-----
#
# iprouting.startup - ION iprouting process .startup file
#
# October, 2001, Fan Kong
#
#-----
#
# Copyright (c) 2001-2002, 2004-2007 by cisco Systems, Inc.
# All rights reserved.
#
#-----
```

name:iprouting.iosproc

path:/sbin

feature:iprouting

level:100

envs:RLIMIT_NOFILE=65535

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting.startup

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

/* \$Id\$

* \$Source\$

*-----

* policylist.c - Routines to handle policy-list commands

*

* Apr. 2000, Rex Fernando

*

* Copyright (c) 2000, 2002-2011, 2016-2017, 2020 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist.c

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

/* \$Id: ip_routing.c,v 3.2 1995/11/17 17:34:11 hampton Exp \$

* \$Source: /swtal/cherf.111/ios/sys/iprouting/ip_routing.c,v \$

*-----

* ip_routing.c -- Generic IP routing functions

*

* Mar 1995 Tony Li

*

* Copyright (c) 1995-1998, 2002-2008, 2010 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log: ip_routing.c,v \$

* Revision 3.2 1995/11/17 17:34:11 hampton

* Remove old entries from the RCS header logs.

*

* Revision 3.1 1995/11/09 12:08:05 shaker

* Bump version numbers from 2.x to 3.x.

*

* Revision 2.1 1995/06/07 21:07:03 hampton

* Bump version numbers from 1.x to 2.x.

*

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_routing.c

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

/*-----

* router_af_parse.c

*

* Route Address Family command and action definitions. Derived from

* router_af_chain.c

*

* May 2002, Victor Kamensky

*

* Copyright (c) 2002-2010, 2012, 2014-2016, 2019 by cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_af_parse.c

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

/*

/*-----

* ip_prefixlist_chain.c - Parse chains for IP Prefix Lists

*

* August 2001, Siva Yaragalla

*

* Copyright (c) 2001-2008 by cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_chain.c

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

/*

/*-----

* Registry for IP route commands in ION

*

* September 2001, Rashmi Shrivastava

*

* Copyright (c) 2001, 2003-2008 by cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-

tar/iprouting_cmn/internal_inc/ion_iprouting_cmd_registry.h
No license file was found, but licenses were detected in source scan.

```
/*-----  
* routemap_api_util.c -- Dynamic routemap API utility functions.  
*  
* May 2003, Tanya Shastri  
*  
* Copyright (c) 2003, 2005-2010, 2020 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_api_util.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$  
* $Source$  
*-----  
* iprouting_init_ios.c -- IP Routing Init code for Native IOS only  
*  
* October 2001, Rashmi Shrivastava  
*  
* Copyright (c) 2001-2009 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ios.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$  
* $Source$  
*-----  
* cfg_router_summary_addr.h  
*  
* Supports the router subcommand "summary-address". Provides IP aggregation  
* configuration.  
*  
* Copyright (c) 1992-2004, 2007-2010, 2015, 2018 by cisco Systems, Inc.  
* All rights reserved.  
*  
* Longer description here.
```

```
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_summary_addr.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_router_neighbor.h,v 3.3.20.1 1996/08/12 16:03:45 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_neighbor.h,v $
*-----
* C F G _ R O U T E R _ N E I G H B O R . H
*
* Copyright (c) 1992-2002, 2004-2010, 2012, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_neighbor.h,v $
* Revision 3.3.20.1 1996/08/12 16:03:45 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3 1996/02/01 23:33:57 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:32:14 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1
  1995/11/09 12:05:42 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:55 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:48 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_neighbor.h
No license file was found, but licenses were detected in source scan.

```
/*
*-----
* exec_clear_routemap.h -- clear route-map counters
*
* Copyright (c) 1986-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_clear_routemap.h
No license file was found, but licenses were detected in source scan.

```
/*-----
* router_topology_parse.c - Router topology command definitions.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2010, 2019-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_topology_parse.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ip_prefixlist.h,v 3.1.2.3 1998/02/23 19:43:44 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/ip_prefixlist.h,v $
*-----
* Generic prefix list support.
*
* June 1997, Enke Chen
*
* Copyright (c) 1997-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: ip_prefixlist.h,v $
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.2 1998/02/11 01:55:34 soma
* Merge FIB_L3 branch into FIB branch
```

*
* Revision 3.1.2.1.8.1 1998/01/29 01:02:13 enkechen
* CSCdj77191: Reduce several chunk size parameters to save memory
* Branch: FIB_L3_branch

*
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen
* CSCdj61356: Prefix-list - facility for efficient route
filtering
* Branch: FIB_branch

*
* Revision 3.1 1997/12/17 01:46:32 enkechen
* Start with the new file.

*
*-----
* \$Endlog\$
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/ip_prefixlist.h

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

/*
*-----
* route_map_blob.c -- Route Map Subsystem
*
* Aug 2001, Siva Yaragalla
*
* Copyright (c) 2001-2012, 2014-2018 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_blob.c

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

/*
*-----
* iprouting_parser_linkpoints.h - iprouting parser linkpoint decls.
*
* April, 2005
*
* Copyright (c) 2005, 2007-2008, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/include/iprouting_parser_linkpoints.h

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

/* \$Id: cfg_ip_routing_routing.h,v 3.3.46.3 1996/08/12 16:03:33 widmer Exp \$

* \$Source: /release/112/cvs/Xsys/iprouting/cfg_ip_routing_routing.h,v \$

*-----

* IP routing routing commands

*

* May 1993, Robert Widmer

*

* Copyright (c) 1993-2000, 2002-2009 by cisco Systems, Inc.

* All rights reserved.

*

*-----

* \$Log: cfg_ip_routing_routing.h,v \$

* Revision 3.3.46.3 1996/08/12 16:03:33 widmer

* CSCdi65725: Create Eolns macro that defaults csb->which to 0

* Branch: California_branch

* Add Eolns and Nvgenns macro that default csb->which to 0

* Remove hidden keyword help strings

*

* Revision 3.3.46.2 1996/06/17 23:33:31 hampton

* Implement the long sought parser "default" keyword. [CSCdi60510]

* Branch: California_branch

*

* Revision 3.3.46.1 1996/04/15 21:17:41 bcole

*

CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature

* commit

* Branch: California_branch

*

* Revision 3.3 1995/12/10 00:42:36 pst

* CSCdi38750: Allow static routes with both next hop and interface

* also add "permanent" keyword for non-flapping static routes

*

* Revision 3.2 1995/11/17 17:31:40 hampton

* Remove old entries from the RCS header logs.

*

* Revision 3.1 1995/11/09 12:04:59 shaker

* Bump version numbers from 2.x to 3.x.

*

* Revision 2.4 1995/10/23 18:33:19 pst

* CSCdi42608: allow IP cache ager to be shut down, make the

* "ip cache-ager" and "ip cache-invalidate-delay"

* commands internal only.

*

* Revision 2.3 1995/07/13 21:39:05 ahh
* CSCdi36962: UDP parsing of tacacs-ds port name broken
* Restore "tacacs-ds" as a keyword, but hide it and map it to TACACS_PORT
* for backwards compatibility.

*
* Revision 2.2 1995/07/11 21:52:08 raj
* CSCdi36510: parser doesnt accept ip forward-protocol
udp xdmcp
* (Actually the parser didn't accept *any* symbolic names in the position
* of the UDP port number; only numbers. It now uses the UDP_PORT macro
* instead.

*
* Revision 2.1 1995/07/01 12:15:42 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting

*
* Revision 2.1 1995/06/07 22:08:34 hampton
* Bump version numbers from 1.x to 2.x.

*
*-----
* \$Endlog\$
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_ip_routing_routing.h
No license file was found, but licenses were detected in source scan.

/*-----
* router_topology_registry.c
*
* Router topology registry.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_topology_registry.c
No license file was found, but licenses were detected in source scan.

/* \$Id\$
* \$Source\$
*-----
* route2.c -- Routing Support: User Interface Routines
*
*-----

* 22-March-1986, Kirk Lougheed
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.

*-----
* \$Log\$
*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route2.c

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

/* \$Id\$

* \$Source\$
*-----

* IP routing parse chains

*

* May 1993, Robert Widmer

*

* Copyright (c) 1993-2012, 2015-2016 by cisco Systems, Inc.

* All rights reserved.

*

*-----

* \$Log\$
*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_chain.c

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

/* \$Id\$

* \$Source\$
*-----

* Ifafrr_registry.c

*

* July 2010, Ahmed Bashandy

*

* Copyright (c) 2001, 2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$
*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/lfafrr_registry.c

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

/*

*-----

* ip_prefixlist_ionblob.c - IP Prefix Lists support for IONized clients

*

* January 2002, Siva Yaragalla

*

* Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ionblob.c

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

/*-----

* exec_routing_context.h

*

* This file defines the routing-context command syntax.

*

* March 2009, Derek Yeung

*

* Copyright (c) 2009-2010, 2015, 2020 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_routing_context.h

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

/*

*-----

* cfg_router_topology_exit.h - Exit from router topology sub mode.

*

* Sept 2004, Mercia Zheng

*

* Copyright (c) 2004, 2006-2009 by cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology_exit.h

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

/* \$Id: iprouting_init.c,v 1.1 2003/06/13 18:30:09 dsavage Exp dsavage \$

* \$Source: /view/dsavage-CSCdy77097-rip-V123/vob/ios.sys2/sys/iprouting/iprouting_init.c,v \$

*-----

* iprouting_init.c -- initialize IP Routing Protocol support.

*

* 20-August-1985, Kirk Lougheed

*

* Copyright (c) 1985-2012, 2016, 2018-2019 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log: iprouting_init.c,v \$

* Revision 1.1 2003/06/13 18:30:09 dsavage

* Initial revision

*

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init.c

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

/* \$Id\$

* \$Source\$

*-----

* Address-family command; enters Address Family mode.

*

* Sept 1998, Bob Thomas

*

* Copyright (c) 1998-1999, 2001-2010, 2012, 2018 by cisco Systems, Inc.

* All rights reserved.

*-----

* \$Log\$

*-----

* \$Endlog\$

*/

Found in path(s):

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_af.h

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

/*

*-----

* cfg_routetag_list.h -- Route Tag List Parser Command

*

```
* June 2011, Karthik Subramaniam
*
* Copyright (c) 1997-2001, 2004, 2007-2008, 2011, 2013 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routetag_list.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* protofltr.c -- Routing protocol filter manager support routines
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/protofltr.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* exec_show_routetag_list.h
*
* Copyright (c) 1993-1996, 1998, 2003-2008, 2011 by cisco Systems, Inc.
* All rights reserved.
*
* Command parsing chain for "show route-tag".
*-----
*
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_show_routetag_list.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* Debugging flag declarations for protocol filter manager - ION
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2008 by cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug_flags_ion.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* ipv4_subsys.c - IPv4 Routing Startup Subsystem
*
* July 2005, Mark Schaefer
*
* Copyright (c) 2005-2010, 2013 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ipv4_subsys.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routemap_internal.c -- Internal funtions of routemap code.
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2009, 2011-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_internal.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* iprouting_parse_blob.c
*
* Parser support for IP ROUTING .
```

```
* This file implements proxy eols that call iprouting parser remote
* registries.
*
* September 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_parse_blob.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* policylist_ionized.c - Routines to handle policy-list commands for
*                       IONized processes.
*
* November 2003, Siva Yaragalla
*
* Copyright (c) 2003-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist_ionized.c
No license file was found, but licenses were detected in source scan.
```

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

* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_output-delay.h

1.214 ethtool 5.8-5.e18

1.214.1 Available under license :

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

```
# Original Creation Date Unknown
# Copyright (c) 2018 by Cisco Systems, Inc.
# All rights reserved.
```

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

Found in path(s):

* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemtap

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

```
#
# Copyright (c) 2018-2020 by Cisco Systems, Inc.
# All rights reserved.
#
# This file contains all needed files related to nfs server daemon.
#
```

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

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

(include nfs-common)

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

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

Found in path(s):

* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils

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

```

usr/lib/systemd/system/reboot.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/remote-fs.target
usr/lib/systemd/system/remote-fs.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.service
usr/lib/systemd/system/rescue.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.target
usr/lib/systemd/system/rescue.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/shutdown.target
usr/lib/systemd/system/shutdown.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/slices.target
    usr/lib/systemd/system/slices.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
/usr/lib/systemd/system/systemd-udev-control.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-control.socket
/usr/lib/systemd/system/systemd-udev-kernel.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udev-kernel.socket
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sys-kernel-config.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sys-kernel-debug.mount
/usr/lib/systemd/system/dev-hugepages.mount
    usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount
/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/sysinit.target.wants/dev-mqueue.mount
/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-config.mount
/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-debug.mount
/usr/lib/systemd/system/systemd-journal-flush.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service
/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service
/usr/lib/systemd/system/systemd-modules-load.service
    usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service
/usr/lib/systemd/system/systemd-sysctl.service
usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service
/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service
/usr/lib/systemd/system/systemd-tmpfiles-setup.service
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup.service
/usr/lib/systemd/system/systemd-udev-trigger.service
usr/lib/systemd/system/sysinit.target.wants/systemd-udev-trigger.service
/usr/lib/systemd/system/systemd-udev.service
usr/lib/systemd/system/sysinit.target.wants/systemd-udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-halt.service

```

```

usr/lib/systemd/system/systemd-halt.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-journal-flush.service
usr/lib/systemd/system/systemd-journal-flush.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-journald-dev-log.socket
usr/lib/systemd/system/systemd-journald-dev-log.socket
infra/systemd/systemd-journald.service.d/visible.conf          usr/lib/systemd/system/systemd-
journald.service.d/visible.conf
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-fsck@.service
usr/lib/systemd/system/systemd-fsck@.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/systemd-journald.socket
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-kexec.service
usr/lib/systemd/system/systemd-kexec.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-modules-load.service
usr/lib/systemd/system/systemd-modules-load.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-poweroff.service
usr/lib/systemd/system/systemd-poweroff.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-reboot.service
usr/lib/systemd/system/systemd-reboot.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-sysctl.service
usr/lib/systemd/system/systemd-sysctl.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup.service
usr/lib/systemd/system/systemd-tmpfiles-setup.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-udev-settle.service
usr/lib/systemd/system/systemd-udev-settle.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-udev-trigger.service
usr/lib/systemd/system/systemd-udev-trigger.service
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-udev-control.socket
usr/lib/systemd/system/systemd-udev-control.socket
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/systemd-udev-kernel.socket
usr/lib/systemd/system/systemd-udev-kernel.socket
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/timers.target
usr/lib/systemd/system/timers.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/time-sync.target
usr/lib/systemd/system/time-sync.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/system/umount.target
usr/lib/systemd/system/umount.target
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd          usr/lib/systemd/systemd
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/bin/systemd-socket-activate          usr/bin/systemd-socket-
activate
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-bootchart
usr/lib/systemd/systemd-bootchart
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-fsck
usr/lib/systemd/systemd-fsck
linkfarm/${SYSROOT}/${ARCH}/${SDK}/usr/lib/systemd/systemd-journald          usr/lib/systemd/systemd-
journald

```

```

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

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

```

Found in path(s):

* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemd-common

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(include systemd-common)

```

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

```

Found in path(s):

* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemd-swrt

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linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/dmesg usr/bin/dmesg
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/kill usr/bin/kill
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/mount usr/bin/mount
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/umount usr/bin/umount
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/agetty usr/sbin/agetty
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/blockdev usr/sbin/blockdev
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/cfdisk usr/sbin/cfdisk
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/ctrlaltdel usr/sbin/ctrlaltdel
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/fdisk usr/sbin/fdisk
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/fsck usr/sbin/fsck
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/hwclock usr/sbin/hwclock
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/mkswap usr/sbin/mkswap
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/pivot_root
 usr/sbin/pivot_root
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/sfdisk usr/sbin/sfdisk
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/swapoff usr/sbin/swapoff
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/swapon usr/sbin/swapon
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/arch usr/bin/arch
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/cal usr/bin/cal
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/chrt usr/bin/chrt
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/col usr/bin/col
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/colcrt usr/bin/colcrt
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/colrm usr/bin/colrm
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/column usr/bin/column
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/flock usr/bin/flock
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/getopt usr/bin/getopt
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/hexdump usr/bin/hexdump
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ionice usr/bin/ionice
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ipcrm
 usr/bin/ipcrm
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/ipcs usr/bin/ipcs
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/isosize usr/bin/isosize
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/last usr/bin/last
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/logger usr/bin/logger
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/look usr/bin/look
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/lslblk usr/bin/lslblk
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/mesg usr/bin/mesg
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/namei usr/bin/namei
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/newgrp usr/bin/newgrp
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/nsenter usr/bin/nsenter
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/rename usr/bin/rename
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/renice usr/bin/renice
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/rev usr/bin/rev
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/script usr/bin/script
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/setuid
 usr/bin/setuid
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/setterm usr/bin/setterm
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/bin/taskset usr/bin/taskset

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ul      usr/bin/ul
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/wall    usr/bin/wall
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/whereis  usr/bin/whereis
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/write   usr/bin/write
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdformat  usr/sbin/fdformat
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkfs    usr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/raw     usr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctl  usr/sbin/zramctl
```

Found in path(s):

* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/util-linux

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#

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(include audit)

(include bash)

(include binutils)

(include bridge-utils)

(include busybox)

(include bzip2)

(include coreutils)

(include cpio)

(include dbus)

(include diffutils)

(include dosfstools)

(include e2fsprogs)

(include ethtool)

(include file)

(include filesystem)

(include findutils)

(include gawk)

(include glibc)

(include grep)

(include gzip)

(include initscripts)

(include ipcalc)

(include iproute2)

(include iptables)

(include iputils)

(include kexec-tools)

(include kmod)

(include less)

(include libcap)

(include lsof)

(include modules)

```
(include ncurses)
(include netbase)
(include netcat)
(include netkit-telnet)
(include net-tools)
(include ${NFS_VER}/nfs-utils-client)
(include pciutils)
(include procps)
(include psmisc)
(include rpcbind)
(include sed)
(include shadow)
(include strace)
(include sysklogd)
(include systemtap)
(include sysvinit)
(include
tar)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all-common
```

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```
#
```

```
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```

```
# All rights reserved.
```

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

```
#
```

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

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

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

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

```
contrib/initscripts/binos/etc/${NFS_VER}/nfsmount.conf etc/nfsmount.conf
```

```
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
```

```
usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
```

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

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils-client
```

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```
#
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```

```
(include all-common)
```

```
(include systemd)
```

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

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all
```

```
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```

```
#
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```

```
#files related to nfs-statd.service
```

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

```
#files related to nfs-idmapd.service
```

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.idmapd     usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount      usr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.
# The directory for plugin is fix to usr/lib/libnfsidmap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/${LIB}/libnfsidmap/nsswitch.so usr/lib/libnfsidmap/nsswitch.so
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/idmapd.conf
    etc/idmapd.conf
infra/systemd/nfs-idmapd.service      usr/lib/systemd/system/nfs-idmapd.service
```

```
contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf
```

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

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-common
```

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

```
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```

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

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

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/ipcalc
```

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

```
#
```



```

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

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

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

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

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-utils
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(include systemd-common)

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

```

```
journald.service.d/visible.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-timedated.service
usr/lib/systemd/system/systemd-timedated.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev.service
usr/lib/systemd/system/systemd-udev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/tmp.mount
usr/lib/systemd/system/tmp.mount
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemd
```

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#
```

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```
(include all-common)
```

```
(include systemd-swrt)
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all-swrt
```

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

```
contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf  etc/nfs-utils.conf
```

Found in path(s):

```
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-common
```

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```
#
```

```
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```

```
#
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```
#
```

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

Found in path(s):

* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/iputils

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#

May 2018, Victor Kamensky

#

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#

linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auditd	usr/sbin/auditd
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/audispd	usr/sbin/audispd
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/autrace	usr/sbin/autrace
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/aureport	usr/sbin/aureport
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auditctl	usr/sbin/auditctl
linkfarm/\${SYSROOT}\${ARCH}\${SDK}/usr/sbin/auresearch	usr/sbin/auresearch

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

Found in path(s):

* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/audit

1.215 cryptography 3.3.1

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1.216 prettytable 1.0.1

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

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

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

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

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

function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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In addition,

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

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

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

medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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

stand

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

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1. Source Code.

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

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

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

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

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

Source.

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

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

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

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not

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6. Conveying Non-Source Forms.

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

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

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

and valid for as

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

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates

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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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1.230 libassuan 2.5.1

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1.235 rpm 4.14.3

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

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```
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```

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be called something other than `show w'
and `show c'; they could even be
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a

program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

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

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

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However,

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

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

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

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

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

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

That's all there is to it!

1.236 go-units 0.4.0

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lib/gss_mechs/mech_krb5/et/kdb5_err.c  
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h  
lib/gss_mechs/mech_spnego/mech/spnego_mech.c  
lib/krb5/kadm5/kadm_host_srv_names.c  
lib/krb5/kdb/kdb_convert.c  
lib/krb5/kdb/kdb_hdr.h
```


lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c

lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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1.239 libxml2 2.9.7-9.el8

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1.240 open-ldap 2.4.46-16.el8

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1.241 tcpdump 4.9.3-1.el8

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1.244 bridgeutils 1.7.1

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1.245 setools 4.3.0

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1.246 pyflakes 2.2.0

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1.248 pyang 2.2.1

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1.249 pypellchecker 0.5.4

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```
* /opt/cola/permits/1156545735_1619205465.85/0/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):

```
* /opt/cola/permits/1156545735_1619205465.85/0/alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-
a4b2399/setup.py
```

1.251 libgcript 1.8.6

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- cipher/sha256-ssse3-amd64.S
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- cipher/sha512-ssse3-amd64.S

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1.253 vim 8.2

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1.257 python-memcached 1.59

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1.260 uwsgi 2.0.18

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Any executables

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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
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3.3	3.2			
2012	PSF	yes		

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Contributors

- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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A. HISTORY OF THE SOFTWARE

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In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see <http://www.zope.com>). In 2001, the Python Software
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a
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2.0	1.6	2000	BeOpen.com	no

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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
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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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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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<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.

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1.262 cffi 1.14.4

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1.263 contextlib2 0.6.0

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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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1.264 click 7.1.2

1.264.1 Available under license :

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binary only, patch it back to the system, and then use a wrapper

Found in path(s):

```
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py
```

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```
import io
import re
```

```
from setuptools import find_packages
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()
```

```
with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)
```

```
setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD-3-Clause",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*,
!=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    classifiers=[
```

```
"Development Status :: 5 - Production/Stable",
"Intended Audience :: Developers",
"License :: OSI Approved :: BSD License",
"Operating System :: OS Independent",
"Programming Language :: Python",
"Programming Language :: Python :: 2",
"Programming Language :: Python :: 3",
],
)
```

Found in path(s):

```
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/setup.py
```

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.. _contrib:

```
=====
click-contrib
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why `click-contrib_` exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please

note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: <https://github.com/click-contrib/>

Found in path(s):

```
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/docs/contrib.rst
```

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Found in path(s):

* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/parser.py

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Found in path(s):

* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/LICENSE.rst

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Found in path(s):

* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/tests/test_formatting.py

1.265 python-pip 20.1.1

1.265.1 Available under license :

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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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
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Contributors

- 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 Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
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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2.0.1	2.0+1.6.1	2001	PSF	yes
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2.1.2	2.1.1	2002	PSF	yes
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2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
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2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
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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
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3.1.1	3.1	2009	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 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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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

License: Apache 2.0

Description: Falcon |[Docs](#)| |[Build Status](#)| |codecov.io|

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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>
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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 automatically available to your app without having to reinstall the package:

```
.. code:: bash
```

```
$ cd falcon
$ pip install -e .
```

You can manually test changes to the Falcon framework by switching to the directory of the cloned repo and then running pytest:

```
.. code:: bash
```

```
$ cd falcon
$ pip install -r tools/test-requirements
$ pytest tests
```

Or, to run the default set of tests:

```
.. code:: bash
```

```
$ pip install tox && tox
```

See also the `tox.ini` <<https://github.com/falconry/falcon/blob/master/tox.ini>> file for a full list of available environments.

Read the docs

The docstrings in the Falcon code base are quite extensive, and we recommend keeping a REPL running while learning the framework so that you can query the various modules and classes as you have questions.

Online docs are available at: <https://falcon.readthedocs.io>

You can build the same docs locally as follows:

```
.. code:: bash
```

```
$ pip install tox && tox -e docs
```

Once the docs have been built, you can view them by opening the following index page in your browser. On OS X it's as simple as::

```
$ open docs/_build/html/index.html
```

Or on Linux:


```
$ xdg-open docs/_build/html/index.html
```

Getting started

Here is a simple, contrived example showing how to create a Falcon-based API.

```
.. code:: python
```

```
# things.py

# Let's get this party started!
import falcon

# Falcon follows the REST architectural style, meaning (among
# other things) that you think in terms of resources and state
# transitions, which map to HTTP verbs.
class ThingsResource(object):
    def on_get(self, req, resp):
        """Handles GET requests"""
        resp.status = falcon.HTTP_200 # This is the default status
        resp.body
= ('\nTwo things awe me most, the starry sky '
   'above me and the moral law within me.\n'
   '\n'
   ' ~ Immanuel Kant\n\n')

# falcon.API instances are callable WSGI apps
app = falcon.API()

# Resources are represented by long-lived class instances
things = ThingsResource()

# things will handle all requests to the '/things' URL path
app.add_route('/things', things)
```

You can run the above example using any WSGI server, such as uWSGI or Gunicorn. For example:

```
.. code:: bash
```

```
$ pip install gunicorn
$ gunicorn things:app
```

Then, in another terminal:

```
.. code:: bash
```

```
$ curl localhost:8000/things
```

A more complex example

Here is a more involved example that demonstrates reading headers and query parameters, handling errors, and working with request and response bodies.

```
.. code:: python
```

```
import json
import logging
import uuid
from wsgiref import simple_server
```

```
import falcon
import requests
```

```
class StorageEngine(object):
```

```
    def get_things(self, marker, limit):
        return [{'id': str(uuid.uuid4()), 'color': 'green'}]
```

```
    def add_thing(self, thing):
        thing['id'] = str(uuid.uuid4())
        return thing
```

```
class StorageError(Exception):
```

```
    @staticmethod
    def handle(ex, req, resp, params):
        description = ('Sorry, couldn\'t write your thing to the '
                      'database.
```

```
It worked on my box.')
```

```
        raise falcon.HTTPError(falcon.HTTP_725,
                               'Database Error',
                               description)
```

```
class SinkAdapter(object):
```

```
    engines = {
```

```

'ddg': 'https://duckduckgo.com',
'y': 'https://search.yahoo.com/search',
}

def __call__(self, req, resp, engine):
    url = self.engines[engine]
    params = {'q': req.get_param('q', True)}
    result = requests.get(url, params=params)

    resp.status = str(result.status_code) + ' ' + result.reason
    resp.content_type = result.headers['content-type']
    resp.body = result.text

class AuthMiddleware(object):

    def process_request(self, req, resp):
        token = req.get_header('Authorization')
        account_id = req.get_header('Account-ID')

        challenges = ["Token type=\"Fernet\""]

        if token is None:
            description = ('Please provide an auth token '
                           'as part of the request.')

            raise falcon.HTTPUnauthorized('Auth token required',
                                           description,
                                           challenges,
                                           href='http://docs.example.com/auth')

        if not self._token_is_valid(token, account_id):
            description = ('The provided auth token is not valid. '
                           'Please request a new token and try again.')

            raise falcon.HTTPUnauthorized('Authentication
required',
                                           description,
                                           challenges,
                                           href='http://docs.example.com/auth')

        def _token_is_valid(self, token, account_id):
            return True # Suuuuuure it's valid...

class RequireJSON(object):

    def process_request(self, req, resp):

```

```

if not req.client_accepts_json:
    raise falcon.HTTPNotAcceptable(
        'This API only supports responses encoded as JSON.',
        href='http://docs.examples.com/api/json')

if req.method in ('POST', 'PUT'):
    if 'application/json' not in req.content_type:
        raise falcon.HTTPUnsupportedMediaType(
            'This API only supports
requests encoded as JSON.',
            href='http://docs.examples.com/api/json')

class JSONTranslator(object):

    def process_request(self, req, resp):
        # req.stream corresponds to the WSGI wsgi.input environ variable,
        # and allows you to read bytes from the request body.
        #
        # See also: PEP 3333
        if req.content_length in (None, 0):
            # Nothing to do
            return

        body = req.stream.read()
        if not body:
            raise falcon.HTTPBadRequest('Empty request body',
                'A valid JSON document is required.')

        try:
            req.context['doc'] = json.loads(body.decode('utf-8'))

        except (ValueError, UnicodeDecodeError):
            raise falcon.HTTPError(falcon.HTTP_753,
                'Malformed JSON',
                'Could not decode the request body. The '
                'JSON was incorrect or not encoded as '
                'UTF-8.')

    def process_response(self, req, resp, resource):
        if 'result' not in req.context:
            return

        resp.body = json.dumps(req.context['result'])

def max_body(limit):

```

```

def hook(req, resp, resource, params):
    length = req.content_length
    if length is not None and length > limit:
        msg = ('The size of the request is too large. The body must not '
              'exceed ' + str(limit) + ' bytes in length.')

        raise falcon.HTTPRequestEntityTooLarge(
            'Request body is too large', msg)

    return hook

```

```

class ThingsResource(object):

    def __init__(self, db):
        self.db = db
        self.logger = logging.getLogger('thingsapp.' + __name__)

    def on_get(self, req, resp, user_id):
        marker = req.get_param('marker') or ''
        limit = req.get_param_as_int('limit') or 50

        try:
            result = self.db.get_things(marker, limit)
        except Exception as ex:
            self.logger.error(ex)

        description = ('Aliens have attacked our base! We will '
                      'be back as soon as we fight them off. '
                      'We appreciate your patience.')

        raise falcon.HTTPServiceUnavailable(
            'Service Outage',
            description,
            30)

        # An alternative way of doing DRY serialization would be to
        # create a custom class that inherits from falcon.Request. This
        # class could, for example, have an additional 'doc' property
        # that would serialize to JSON under the covers.
        req.context['result'] = result

        resp.set_header('Powered-By', 'Falcon')
        resp.status = falcon.HTTP_200

    @falcon.before(max_body(64 * 1024))
    def on_post(self, req, resp, user_id):
        try:

```

```

        doc = req.context['doc']
    except KeyError:
        raise falcon.HTTPBadRequest(

'Missing thing',
    'A thing must be submitted in the request body.')

    proper_thing = self.db.add_thing(doc)

    resp.status = falcon.HTTP_201
    resp.location = '/%s/things/%s' % (user_id, proper_thing['id'])

# Configure your WSGI server to load "things.app" (app is a WSGI callable)
app = falcon.API(middleware=[
    AuthMiddleware(),
    RequireJSON(),
    JSONTranslator(),
])

db = StorageEngine()
things = ThingsResource(db)
app.add_route('/{user_id}/things', things)

# If a responder ever raised an instance of StorageError, pass control to
# the given handler.
app.add_error_handler(StorageError, StorageError.handle)

# Proxy some things to another service; this example shows how you might

# send parts of an API off to a legacy system that hasn't been upgraded
# yet, or perhaps is a single cluster that all data centers have to share.
sink = SinkAdapter()
app.add_sink(sink, r'/search/(?P<engine>ddg|y)\Z')

# Useful for debugging problems in your API; works with pdb.set_trace(). You
# can also use Gunicorn to host your app. Gunicorn can be configured to
# auto-restart workers when it detects a code change, and it also works
# with pdb.
if __name__ == '__main__':
    httpd = simple_server.make_server('127.0.0.1', 8000, app)
    httpd.serve_forever()

```

Community

The Falcon community maintains a discussion group that you can use to

share your ideas and ask questions about the framework. To join the discussion, please visit <https://groups.google.com/d/forum/falconframework>.

Per our

``Code of Conduct <https://github.com/falconry/falcon/blob/master/CODEOFCONDUCT.md>``, we expect everyone who participates in community discussions to act professionally, and lead by example in encouraging constructive discussions. Each individual in the community is responsible for creating a positive, constructive, and productive culture.

We also hang out in

``#falconframework <https://kiwiirc.com/client/irc.freenode.net/?#falconframework>`` on freenode, where everyone is always welcome to ask questions and share ideas.

Contributing

Kurt Griffiths (kgriffs) is the creator and current maintainer of the Falcon framework, with the generous help of a number of stylish and talented contributors.

Pull requests are always welcome. We use the GitHub issue tracker to organize our work, but you do not need to open a new issue before submitting a PR.

Before submitting a pull request, please ensure you have added/updated the appropriate tests (and that all existing tests still pass with your changes), and that your coding style follows PEP 8 and doesn't cause pyflakes to complain.

Commit messages should be formatted using ``AngularJS conventions <http://goo.gl/QpbS7>``.

Comments follow ``Google's style guide <https://google.github.io/styleguide/pyguide.html?showone=Comments#Comments>``, with the additional requirement of prefixing inline comments using your GitHub nick and an appropriate prefix:

- TODO(riker): Damage report!
- NOTE(riker): Well, that's certainly good to know.
- PERF(riker): Travel time to the nearest starbase?
- APPSEC(riker): In all trust, there is the possibility for betrayal.

See also: ``CONTRIBUTING.md`

`<https://github.com/falconry/falcon/blob/master/CONTRIBUTING.md>``

Legal

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```
.. |Docs| image:: https://readthedocs.org/projects/falcon/badge/?version=stable
   :target: https://falcon.readthedocs.io/en/stable/?badge=stable
   :alt: Falcon web framework docs
.. |Runner| image:: https://a248.e.akamai.net/assets.github.com/images/icons/emoji/runner.png
   :width: 20
   :height: 20
.. |Build Status| image:: https://travis-ci.org/falconry/falcon.svg
   :target: https://travis-ci.org/falconry/falcon
.. |codecov.io| image:: http://codecov.io/github/falconry/falcon/coverage.svg?branch=master
   :target: http://codecov.io/github/falconry/falcon?branch=master
```

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Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Natural Language :: English

Classifier:

Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: POSIX

Classifier: Topic :: Internet :: WWW/HTTP :: WSGI

Classifier: Topic :: Software Development :: Libraries :: Application Frameworks

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Programming Language :: Python :: Implementation :: Jython

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Found in path(s):

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/PKG-INFO

*

/opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon.egg-info/PKG-INFO

No license file was found, but licenses were detected in source scan.

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used here under the terms of the Apache License, Version 2.0.

Found in path(s):

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/helpers.py

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Found in path(s):

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/resource.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/bench.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http_error.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/responders.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/api.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/stats.py

*

/opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/misc.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/client.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request_helpers.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response_helpers.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/redirects.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/__init__.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/print_routes.py

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request.py

```

* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/errors.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/claims.py
*
/opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/hooks.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/__init__.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-
1.1.0/falcon/bench/queues/messages.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/uri.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/base.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/tools/build.sh
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/status_codes.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/queues.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/version.py
*
/opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/bench.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api_helpers.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/__init__.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http_status.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/compiled.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/util.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/srmock.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/test_case.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/create.py

```

1.268 libevdev 1.11.0

1.268.1 Available under license :

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1.269 ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

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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.

-- Dave

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1.270 markupsafe 1.1.1

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```
/**
```

```
* markupsafe._speedups
```

```
* ~~~~~
```

```
*
```

```
* C implementation of escaping for better performance. Used instead of  
* the native Python implementation when compiled.
```

```
*
```

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*/
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1.275 werkzeug 1.0.1

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1.276 pep8 1.7.1

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Metadata-Version: 1.1

Name: pep8

Version: 1.7.1

Summary: Python style guide checker

Home-page: <http://pep8.readthedocs.org/>

Author: Ian Lee

Author-email: IanLee1521@gmail.com

License: Expat license

Description-Content-Type: UNKNOWN

Description: pep8 - Python style guide checker

=====

pep8 is a tool to check your Python code against some of the style conventions in `PEP 8`_.

.. _PEP 8: <http://www.python.org/dev/peps/pep-0008/>

Features

- * Plugin architecture: Adding new checks is easy.
- * Parseable output: Jump to error location in your editor.
- * Small: Just one Python file, requires only stdlib. You can use just the pep8.py file for this purpose.
- * Comes with a comprehensive test suite.

Installation

You can install, upgrade, uninstall pep8.py with these commands::

```
$ pip install pep8
$ pip install --upgrade pep8
$ pip uninstall pep8
```

There's also a package for Debian/Ubuntu, but it's not always the latest version.

Example usage and output

::

```
$ pep8 --first optparse.py
optparse.py:69:11: E401 multiple imports on one line
optparse.py:77:1: E302 expected 2 blank lines, found 1
optparse.py:88:5: E301 expected 1 blank line, found 0
optparse.py:222:34: W602 deprecated form of raising exception
optparse.py:347:31: E211 whitespace before '('
optparse.py:357:17: E201 whitespace after '{'
optparse.py:472:29: E221 multiple spaces before operator
optparse.py:544:21: W601 .has_key() is deprecated, use 'in'
```

You can also make
pep8.py show the source code for each error, and
even the relevant text from PEP 8::

```
$ pep8 --show-source --show-pep8 testsuite/E40.py
testsuite/E40.py:2:10: E401 multiple imports on one line
import os, sys
      ^
```

Imports should usually be on separate lines.

```
Okay: import os\nimport sys
E401: import sys, os
```

Or you can display how often each error was found::

```
$ pep8 --statistics -qq Python-2.5/Lib
232  E201 whitespace after '['
599  E202 whitespace before ')'
631  E203 whitespace before ','
842  E211 whitespace before '('
2531 E221 multiple spaces before operator
```

4473 E301 expected 1 blank line, found 0
4006 E302 expected 2 blank lines, found 1
165 E303 too many blank lines (4)
325 E401 multiple imports on one line
3615 E501 line too long (82 characters)
612 W601 .has_key() is deprecated, use 'in'
1188 W602 deprecated form of raising exception

Links

.. image:: <https://api.travis-ci.org/PyCQA/pep8.png?branch=master>
:target: <https://travis-ci.org/PyCQA/pep8>
:alt: Build status

.. image:: <https://pypip.in/wheel/pep8/badge.png?branch=master>
:target: <https://pypi.python.org/pypi/pep8>
:alt: Wheel Status

* `Read the documentation <<http://pep8.readthedocs.org/>>`_

* `Fork me on GitHub <<http://github.com/PyCQA/pep8>>`_

Changelog

=====

1.7.1 (2017-10-22)

Changes:

* Prominently note via warning message that the tool is no longer released as ``pep8`` and will only be fixed in the ``pycodestyle`` package

1.7.0 (2016-01-12)

Announcements:

* Repository moved to PyCQA Organization on GitHub:
<https://github.com/pycqa/pep8>

Changes:

* Reverted the fix in #368, "options passed on command line are only ones accepted" feature. This has many unintended consequences in pep8 and flake8

and needs to be reworked when I have more time.

- * Added support for Python 3.5. (Issue #420 & #459)
- * Added support for multi-line config_file option parsing. (Issue #429)
- * Improved parameter parsing. (Issues #420 & #456)

Bugs:

- * Fixed BytesWarning on Python 3. (Issue #459)

1.6.2 (2015-02-15)

Changes:

- * Added check for breaking around a binary operator. (Issue #197, Pull #305)

Bugs:

- * Restored config_file parameter in process_options(). (Issue #380)

1.6.1 (2015-02-08)

Changes:

- * Assign variables before referenced. (Issue #287)

Bugs:

- * Exception thrown due to unassigned ``local_dir`` variable. (Issue #377)

1.6.0 (2015-02-06)

News:

- * Ian Lee <ianlee1521@gmail.com> joined the project as a maintainer.

Changes:

- * Report E731 for lambda assignment. (Issue #277)
- * Report E704 for one-liner def instead of E701. Do not report this error in the default configuration. (Issue #277)

- * Replace codes E111, E112 and E113 with codes E114, E115 and E116 for bad indentation of comments. (Issue #274)
- * Report E266 instead of E265 when the block comment starts with multiple ```#```. (Issue #270)
- * Report E402 for import statements not at the top of the file. (Issue #264)
- * Do not enforce whitespaces around ```**``` operator. (Issue #292)
- * Strip whitespace from around paths during normalization. (Issue #339 / #343)
- * Update ```--format``` documentation. (Issue #198 / Pull Request #310)
- * Add ```.tox/``` to default excludes. (Issue #335)
- * Do not report E121 or E126 in the default configuration. (Issues #256 / #316)
- * Allow spaces around the equals sign in an annotated function. (Issue #357)
- * Allow trailing backslash if in an inline comment. (Issue #374)
- * If ```--config``` is used, only that configuration is processed. Otherwise, merge the user and local configurations are merged. (Issue #368 / #369)

Bug fixes:

- * Don't crash if `Checker.build_tokens_line()` returns `None`. (Issue #306)
- * Don't crash if `os.path.expanduser()` throws an `ImportError`. (Issue #297)
- * Missing space around keyword parameter equal not always reported, E251. (Issue #323)
- * Fix false positive E711/E712/E713. (Issues #330 and #336)
- * Do not skip physical checks if the newline is escaped. (Issue #319)
- * Flush `sys.stdout` to avoid race conditions with printing. See flake8 bug: <https://gitlab.com/pycqa/flake8/issues/17> for more details. (Issue #363)

1.5.7 (2014-05-29)

Bug fixes:

- * Skip the traceback on "Broken pipe" signal. (Issue #275)
- * Do not exit when an option in ``setup.cfg`` or ``tox.ini`` is not recognized.
- * Check the last line even if it does not end with a newline. (Issue #286)
- * Always open files in universal newlines mode in Python 2. (Issue #288)

1.5.6 (2014-04-14)

Bug fixes:

- * Check the last line even if it has no end-of-line. (Issue #273)

1.5.5 (2014-04-10)

Bug fixes:

- * Fix regression with E22 checks and inline comments. (Issue #271)

1.5.4 (2014-04-07)

Bug fixes:

- * Fix negative offset with E303 before a multi-line docstring. (Issue #269)

1.5.3 (2014-04-04)

Bug fixes:

- * Fix wrong offset computation when error is on the last char of a physical line. (Issue #268)

1.5.2 (2014-04-04)

Changes:

- * Distribute a universal wheel file.

Bug fixes:

- * Report correct line number for E303 with comments. (Issue #60)
- * Do not allow newline after parameter equal. (Issue #252)
- * Fix line number reported for multi-line strings. (Issue #220)
- * Fix false positive E121/E126 with multi-line strings. (Issue #265)
- * Fix E501 not detected in comments with Python 2.5.
- * Fix caret position with ``--show-source`` when line contains tabs.

1.5.1 (2014-03-27)

Bug fixes:

- * Fix a crash with E125 on multi-line strings. (Issue #263)

1.5 (2014-03-26)

Changes:

- * Report E129 instead of E125 for visually indented line with same indent as next logical line. (Issue #126)
- * Report E265 for space before block comment. (Issue #190)
- * Report E713 and E714 when operators ``not in`` and ``is not`` are recommended. (Issue #236)
- * Allow long lines in multiline strings and comments if they cannot be wrapped. (Issue #224).
- * Optionally disable physical line checks inside multiline strings, using ``# noqa``. (Issue #242)

- * Change text for E121 to report "continuation line under-indented for hanging indent" instead of indentation not being a multiple of 4.
- * Report E131 instead of E121 / E126 if the hanging indent is not consistent within the same continuation block. It helps when error E121 or E126 is in the ``ignore`` list.
- * Report E126 instead of E121 when the continuation line is hanging with extra indentation, even if indentation is not a multiple of 4.

Bug fixes:

- * Allow the checkers to report errors on empty files. (Issue #240)
- * Fix ignoring too many checks when ``--select`` is used with codes declared in a flake8 extension. (Issue #216)
- * Fix regression with multiple brackets. (Issue #214)
- * Fix ``StyleGuide`` to parse the local configuration if the keyword argument ``paths`` is specified. (Issue #246)
- * Fix a false positive E124 for hanging indent. (Issue #254)
- * Fix a false positive E126 with embedded colon. (Issue #144)
- * Fix a false positive E126 when indenting with tabs. (Issue #204)
- * Fix behaviour when ``exclude`` is in the configuration file and the current directory is not the project directory. (Issue #247)
- * The logical checks can return ``None`` instead of an empty iterator. (Issue #250)
- * Do not report multiple E101 if only the first indentation starts with a tab. (Issue #237)
- * Fix a rare false positive W602. (Issue #34)

1.4.6 (2013-07-02)

Changes:

- * Honor ``# noqa`` for errors E711 and E712. (Issue #180)
- * When both a ``tox.ini`` and a ``setup.cfg`` are present in the project directory, merge their contents. The ``tox.ini`` file takes precedence (same as before). (Issue #182)
- * Give priority to ``--select`` over ``--ignore``. (Issue #188)
- * Compare full path when excluding a file. (Issue #186)
- * New option ``--hang-closing`` to switch to the alternative style of closing bracket indentation for hanging indent. Add error E133 for closing bracket which is missing indentation. (Issue #103)
- * Accept both styles of closing bracket indentation for hanging indent. Do not report error E123 in the default configuration. (Issue #103)

Bug fixes:

- * Do not crash when running AST checks and the document contains null bytes. (Issue #184)
- * Correctly report other E12 errors when E123 is ignored. (Issue #103)
- * Fix false positive E261/E262 when the file contains a BOM. (Issue #193)
- * Fix E701, E702 and E703 not detected sometimes. (Issue #196)
- * Fix E122 not detected in some cases. (Issue #201 and #208)
- * Fix false positive E121 with multiple brackets. (Issue #203)

1.4.5 (2013-03-06)

- * When no path is specified, do not try to read from stdin. The feature was added in 1.4.3, but it is not supported on Windows. Use ``-`` filename argument to read from stdin. This usage is supported since 1.3.4. (Issue #170)
- * Do not require ``setuptools`` in setup.py. It works around an issue with ``pip`` and Python 3. (Issue #172)
- * Add ``__pycache__`` to the ignore list.

- * Change misleading message for E251. (Issue #171)
- * Do not report false E302 when the source file has a coding cookie or a comment on the first line. (Issue #174)
- * Reorganize the tests and add tests for the API and for the command line usage and options. (Issues #161 and #162)
- * Ignore all checks which are not explicitly selected when ``select`` is passed to the ``StyleGuide`` constructor.

1.4.4 (2013-02-24)

- * Report E227 or E228 instead of E225 for whitespace around bitwise, shift or modulo operators. (Issue #166)
- * Change the message for E226 to make clear that it is about arithmetic operators.
- * Fix a false positive E128 for continuation line indentation with tabs.
- * Fix regression with the ``--diff`` option. (Issue #169)
- * Fix the ``TestReport`` class to print the unexpected warnings and errors.

1.4.3 (2013-02-22)

- * Hide the ``--doctest`` and ``--testsuite`` options when installed.
- * Fix crash with AST checkers when the syntax is invalid. (Issue #160)
- * Read from standard input if no path is specified.
- * Initiate a graceful shutdown on ``Control+C``.
- * Allow to change the ``checker_class`` for the ``StyleGuide``.

1.4.2 (2013-02-10)

- * Support AST checkers provided by third-party applications.
- * Register new checkers with `register_check(func_or_cls, codes)`.
- * Allow to construct a `StyleGuide` with a custom parser.
- * Accept visual indentation without parenthesis after the `if`

statement. (Issue #151)

- * Fix `UnboundLocalError` when using `# noqa` with continued lines. (Issue #158)
- * Re-order the lines for the `StandardReport`.
- * Expand tabs when checking E12 continuation lines. (Issue #155)
- * Refactor the testing class `TestReport` and the specific test functions into a separate test module.

1.4.1 (2013-01-18)

- * Allow `sphinx.ext.autodoc` syntax for comments. (Issue #110)
- * Report E703 instead of E702 for the trailing semicolon. (Issue #117)
- * Honor `# noqa` in addition to `# nope8`. (Issue #149)
- * Expose the `OptionParser` factory for better extensibility.

1.4 (2012-12-22)

- * Report E226 instead of E225 for optional whitespace around common operators (`**`, `**`, `^`, `+` and `-`). This new error code is ignored in the default configuration because PEP 8 recommends to "use your own judgement". (Issue #96)
- * Lines with a `# nope8` at the end will not issue errors on line length E501 or continuation line indentation E12*. (Issue #27)
- * Fix `AssertionError` when the source file contains an invalid line ending `"\r\n"`. (Issue #119)

* Read the ``[pep8]`` section of ``tox.ini`` or ``setup.cfg`` if present.
(Issue #93 and #141)

* Add the Sphinx-based documentation, and publish it
on <http://pep8.readthedocs.org/>. (Issue #105)

1.3.4 (2012-12-18)

* Fix false positive E124 and E128 with comments. (Issue #100)

* Fix error on stdin when running with bpython. (Issue #101)

* Fix false positive E401. (Issue #104)

* Report E231 for nested dictionary in list. (Issue #142)

* Catch E271 at the beginning of the line. (Issue #133)

* Fix false positive E126 for multi-line comments. (Issue #138)

* Fix false positive E221 when operator is preceded by a comma. (Issue #135)

* Fix ``--diff`` failing on one-line hunk. (Issue #137)

* Fix the ``--exclude`` switch for directory paths. (Issue #111)

* Use ``-`` filename to read from standard input. (Issue #128)

1.3.3 (2012-06-27)

* Fix regression with continuation line checker. (Issue #98)

1.3.2 (2012-06-26)

* Revert to the previous behaviour for ``--show-pep8``:
do not imply ``--first``. (Issue #89)

* Add E902 for IO errors. (Issue #87)

* Fix false positive for E121, and

missed E124. (Issue #92)

- * Set a sensible default path for config file on Windows. (Issue #95)
- * Allow ``verbose`` in the configuration file. (Issue #91)
- * Show the enforced ``max-line-length`` in the error message. (Issue #86)

1.3.1 (2012-06-18)

- * Explain which configuration options are expected. Accept and recommend the options names with hyphen instead of underscore. (Issue #82)
- * Do not read the user configuration when used as a module (except if ``config_file=True`` is passed to the ``StyleGuide`` constructor).
- * Fix wrong or missing cases for the E12 series.
- * Fix cases where E122 was missed. (Issue #81)

1.3 (2012-06-15)

.. warning::

The internal API is backwards incompatible.

- * Remove global configuration and refactor the library around a ``StyleGuide`` class; add the ability to configure various reporters. (Issue #35 and #66)
- * Read user configuration from ``~/config/pep8`` and local configuration from ``./pep8``. (Issue #22)
- * Fix E502 for backslash embedded in multi-line string. (Issue #68)
- * Fix E225 for Python 3 iterable unpacking (PEP 3132). (Issue #72)
- * Enable the new checkers from the E12 series in the default configuration.
- * Suggest less error-prone alternatives for E712 errors.
- * Rewrite checkers to run faster (E22, E251, E27).

- * Fixed a crash when parsed code is invalid (too many closing brackets).
- * Fix E127 and E128 for continuation line indentation. (Issue #74)
- * New option `--format` to customize the error format. (Issue #23)
- * New option `--diff` to check only modified code. The unified diff is read from STDIN. Example: `hg diff | pep8 --diff` (Issue #39)
- * Correctly report the count of failures and set the exit code to 1 when the `--doctest` or the `--testsuite` fails.
- * Correctly detect the encoding in Python 3. (Issue #69)
- * Drop support for Python 2.3, 2.4 and 3.0. (Issue #78)

1.2 (2012-06-01)

- * Add E121 through E128 for continuation line indentation. These checks are disabled by default. If you want to force all checks, use switch `--select=E,W`. Patch by Sam Vilain. (Issue #64)
- * Add E721 for direct type comparisons. (Issue #47)
- * Add E711 and E712 for comparisons to singletons. (Issue #46)
- * Fix spurious E225 and E701 for function annotations. (Issue #29)
- * Add E502 for explicit line join between brackets.
- * Fix E901 when printing source with `--show-source`.
- * Report all errors for each checker, instead of reporting only the first occurrence for each line.
- * Option `--show-pep8` implies `--first`.

1.1 (2012-05-24)

- * Add E901 for syntax errors. (Issues #63 and #30)

* Add E271, E272, E273 and E274 for extraneous whitespace around keywords. (Issue #57)

* Add ``tox.ini`` configuration file for tests. (Issue #61)

* Add ``.travis.yml`` configuration file for continuous integration. (Issue #62)

1.0.1 (2012-04-06)

* Fix inconsistent version numbers.

1.0 (2012-04-04)

* Fix W602 ``raise`` to handle multi-char names.
(Issue #53)

0.7.0 (2012-03-26)

* Now ``--first`` prints only the first occurrence of each error.
The ``--repeat`` flag becomes obsolete because it is the default behaviour. (Issue #6)

* Allow to specify ``--max-line-length``. (Issue #36)

* Make the shebang more flexible. (Issue #26)

* Add testsuite to the bundle. (Issue #25)

* Fixes for Jython. (Issue #49)

* Add PyPI classifiers. (Issue #43)

* Fix the ``--exclude`` option. (Issue #48)

* Fix W602, accept ``raise`` with 3 arguments. (Issue #34)

* Correctly select all tests if ``DEFAULT_IGNORE == ""``.

0.6.1 (2010-10-03)

* Fix inconsistent version numbers. (Issue #21)

0.6.0 (2010-09-19)

* Test suite reorganized and enhanced in order to check more failures with fewer test files. Read the `run_tests` docstring for details about the syntax.

* Fix E225: accept `print >>sys.stderr, "..."` syntax.

* Fix E501 for lines containing multibyte encoded characters. (Issue #7)

* Fix E221, E222, E223, E224 not detected in some cases. (Issue #16)

* Fix E211 to reject `v = dic['a'] ['b']`. (Issue #17)

* Exit code is always 1 if any error or warning is found. (Issue #10)

* `--ignore` checks are now really ignored, especially in conjunction with `--count`. (Issue #8)

* Blank lines with spaces yield W293 instead of W291: some developers want to ignore this warning and indent the blank lines to paste their code easily in the Python interpreter.

* Fix E301: do not require a blank line before an indented block. (Issue #14)

* Fix E203 to accept NumPy slice notation `a[0, :]`. (Issue #13)

* Performance improvements.

* Fix decoding and checking non-UTF8 files in Python 3.

* Fix E225: reject `True+False` when running on Python 3.

* Fix an exception when the line starts with an operator.

* Allow a new line before closing ````, `}``` or ```]``. (Issue #5)

0.5.0 (2010-02-17)

- * Changed the `--count` switch to print to `sys.stderr` and set exit code to 1 if any error or warning is found.
- * E241 and E242 are removed from the standard checks. If you want to include these checks, use switch `--select=E,W`. (Issue #4)
- * Blank line is not mandatory before the first class method or nested function definition, even if there's a docstring. (Issue #1)
- * Add the switch `--version`.
- * Fix decoding errors with Python 3. (Issue #13 [1])
- * Add `--select` option which is mirror of `--ignore`.
- * Add checks E261 and E262 for spaces before inline comments.
- * New check W604 warns about deprecated usage of backticks.
- * New check W603 warns about the deprecated operator `<>`.
- * Performance improvement, due to rewriting of E225.
- * E225 now accepts:
 - no whitespace after unary operator or similar. (Issue #9 [1])
 - lambda function with argument unpacking or keyword defaults.
- * Reserve "2 blank lines" for module-level logical blocks. (E303)
- * Allow multi-line comments. (E302, issue #10 [1])

0.4.2 (2009-10-22)

- * Decorators on classes and class methods are OK now.

0.4 (2009-10-20)

- * Support for all versions of Python from 2.3 to 3.1.
- * New and greatly expanded self tests.

- * Added ``--count`` option to print the total number of errors and warnings.
- * Further improvements to the handling of comments and blank lines.
(Issue #1 [1]_ and others changes.)
- * Check all py files in directory when passed a directory (Issue #2 [1]_). This also prevents an exception when traversing directories with non ``*.py`` files.
- * E231 should allow commas to be followed by ``)``. (Issue #3 [1]_)
- * Spaces are no longer required around the equals sign for keyword arguments or default parameter values.

.. [1] These issues refer to the `previous issue tracker` __.
 .. __: <http://github.com/cburroughs/pep8.py/issues>

0.3.1 (2009-09-14)

- * Fixes for comments: do not count them when checking for blank lines between items.
- * Added setup.py for pypi upload and easy_installability.

0.2 (2007-10-16)

- * Loads of fixes and improvements.

0.1 (2006-10-01)

- * First release.

Keywords: pep8

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):

* /opt/cola/permits/1160881179_1620412741.53/0/pep8-1-7-1-1-tar-gz/pep8-1.7.1/PKG-INFO
*

/opt/cola/permits/1160881179_1620412741.53/0/pep8-1-7-1-1-tar-gz/pep8-1.7.1/pep8.egg-info/PKG-INFO
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Found in path(s):

* /opt/cola/permits/1160881179_1620412741.53/0/pep8-1-7-1-1-tar-gz/pep8-1.7.1/setup.py
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Found in path(s):

* /opt/cola/permits/1160881179_1620412741.53/0/pep8-1-7-1-1-tar-gz/pep8-1.7.1/pep8.py
No license file was found, but licenses were detected in source scan.

.. _license:

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```

Found in path(s):

* /opt/cola/permits/1160881179_1620412741.53/0/pep8-1-7-1-1-tar-gz/pep8-1.7.1/docs/index.rst

1.277 itsdangerous 1.1.0

1.277.1 Available under license :

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```
.. rst-class:: hide-header
```

```
itsdangerous  
=====
```

```
.. image:: _static/itsdangerous-logo.png  
:align: center  
:target: https://palletsprojects.com/p/itsdangerous/
```

Sometimes you just want to send some data to untrusted environments. But how to do this safely? The trick involves signing. Given a key only you know, you can cryptographically sign your data and hand it over to someone else. When you get the data back you can easily ensure that nobody tampered with it.

Granted, the receiver can decode the contents and look into the package, but they can not modify the contents unless they also have your secret key. So if you keep the key secret and complex, you will be fine.

Internally itsdangerous uses HMAC and SHA-512 for signing by default. The initial implementation was inspired by `Django's signing module` <<https://docs.djangoproject.com/en/dev/topics/signing/>>`. It also supports JSON Web Signatures (JWS). The library is BSD licensed.

Installing

Install and update using `pip`_:

```
.. code-block:: text
```

```
pip install -U itsdangerous
```

```
.. _pip: https://pip.pypa.io/en/stable/quickstart/
```

Example Use Cases

- You can serialize and sign a user ID in a URL and email it to them to unsubscribe from a newsletter. This way you don't need to generate one-time tokens and store them in the database. Same thing with any kind of activation link for accounts and similar things.

- Signed objects can be stored in cookies or other untrusted sources which means you don't need to have sessions stored on the server, which reduces the number of necessary database queries.
- Signed information can safely do a roundtrip between server and client in general which makes them useful for passing server-side state to a client and then back.

Table of Contents

.. toctree::

signer
serializer
exceptions
timed

url_safe
jws
encoding
license
changes

Found in path(s):

* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-itsdangerous-6e63598/docs/index.rst

No license file was found, but licenses were detected in source scan.

```
import io
import re
```

```
from setuptools import find_packages
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()
```

```
with io.open("src/itsdangerous/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = \"(.*)\"", f.read()).group(1)
```

```
setup(
    name="itsdangerous",
    version=version,
    url="https://palletsprojects.com/p/itsdangerous/",
    project_urls={
        "Documentation": "https://itsdangerous.palletsprojects.com/",
        "Code": "https://github.com/pallets/itsdangerous",
```

```

    "Issue tracker": "https://github.com/pallets/itsdangerous/issues",
},
license="BSD",
author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets Team",
maintainer_email="contact@palletsprojects.com",
description="Various helpers to pass data to untrusted environments and back.",
long_description=readme,
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 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",
],
)

```

Found in path(s):

```
* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-itsdangerous-6e63598/setup.py
```

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```
`BSD 3-Clause <https://opensource.org/licenses/BSD-3-Clause>`_
```

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The initial implementation of itsdangerous was inspired by Django's signing module.

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Found in path(s):

* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-itsdangerous-6e63598/LICENSE.rst

No license file was found, but licenses were detected in source scan.

* License: `BSD <<https://github.com/pallets/itsdangerous/blob/master/LICENSE.rst>>`_

Found in path(s):

* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-itsdangerous-6e63598/README.rst

1.278 jinja2 2.11.2

1.278.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status
:: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "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 :: 3.5",
        "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 :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

```

Found in path(s):

* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py

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Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com

License: BSD-3-Clause

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/jinja>

Project-URL: Issue tracker, <https://github.com/pallets/jinja/issues>

Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can

use autoescaping to prevent XSS from untrusted user input.

- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

Install and update using `pip`_:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. _pip:

<https://pip.pypa.io/en/stable/quickstart/>

In A Nutshell

.. code-block:: jinja

```
{% extends "base.html" % }
{% block title % }Members{% endblock % }
{% block content % }
  <ul>
    {% for user in users % }
      <li><a href="{{ user.url }}">{{ user.username }}</a></li>
    {% endfor % }
  </ul>
{% endblock % }
```

Links

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development

Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type:
text/x-rst
Provides-Extra: i18n

Found in path(s):

* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO

1.279 webob 1.8.5

1.279.1 Available under license :

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=====

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1.280 pyopenssl 19.1.0

1.280.1 Available under license :

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1.281 kerberos 1.18

1.281.1 Available under license :

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cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h

uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c

lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.283 shadow 4.6-12.e18

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1.285 python-engineio 3.13.2

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1.286 python-socketio 4.6.0

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1.287 gevent 20.9.0

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greentest/2.7
greentest/2.7.8
greentest/2.7pypy
greentest/3.3
greentest/3.4
greentest/3.5

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gevent/libuv/_coreffi_source.c
gevent/libuv/_coreffi_cdef.c

Originally based on code from <https://github.com/veege/guv>

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1.288 pyperclip 1.8.1

1.288.1 Available under license :

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1.289 pnp 3.0.0.dev2

1.289.1 Available under license :

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```
license='Cisco Proprietary',
```

Found in path(s):

```
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.py
```

No license file was found, but licenses were detected in source scan.

```
[bdist_rpm]
```

```
release = 1
```

```
packager = Network Plug-n-Play <pnp-dev@cisco.com>
```

```
doc_files = README.rst
```

```
no-autoreq = 1
```

```
post-install = pnp/data/cfg/post_install_rpm.sh
```

```
rpm-base = ./rpmbuild
```

```
binary-only = 1
```

```
description = Plug-n-Play Agent for Cisco Network-PnP
```

```
keep-temp = 1
```

```
[egg_info]
```

```
tag_build =
```

```
tag_date = 0
```

Found in path(s):

```
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.cfg
```

No license file was found, but licenses were detected in source scan.

```
# All rights reserved.
```

Found in path(s):

* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/capwap.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/reload.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/reload.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/wlc.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/monitor.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/topology.py
*
/opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/tag.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/script_exec.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/profile/profile.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/event.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/vbond.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/platform_constants.py
*
/opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/security.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/dhcp_discovery.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/utills/pnp_utills.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/clock_sync.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/interface_info_db.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/errors.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/interface_info.py
*
/opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/action.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/infra/discovery_manager.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/event.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-

0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/device_auth.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/xml/xmlparser.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/vbond.py
*
/opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/wlc.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/cdp.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/capability.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/utils/timer.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/device.py
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/opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/device_info.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/dns_discovery.py
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/reload.py
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No license file was found, but licenses were detected in source scan.
```

Metadata-Version: 1.2

Name: pnp

Version: 3.0.0.dev2

Summary: Plug-n-Play Agent for Cisco Network-PnP

Home-page: <https://developer.cisco.com/site/open-plug-n-play/>

Author: Network Plug-n-Play

Author-email: pnp-support@cisco.com

License: Cisco Proprietary

Description: UNKNOWN

Keywords: posix pnp agent plug-n-play client

Platform: UNKNOWN

Classifier: Operating System :: POSIX :: Linux

Classifier: Programming Language :: Python :: 3.6

Requires-Python: >=3.6

Found in path(s):

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* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp.egg-info/PKG-INFO
* /opt/cola/permits/1169156025_1656537926.7187464/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/PKG-INFO
```

1.290 configargparse 1.2.3

1.290.1 Available under license :

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1.291 berkeley-db 5.3.28-40.el8

1.291.1 Available under license :

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/*
 * $Id: LICENSE,v 11.12 2004/03/30 20:49:44 bostic Exp $
 */
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1.292 bcrypt 3.2.0-1.ph4

1.292.1 Available under license :

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Version 2.0, January 2004

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1.293 pyrsistent 0.17.3-2.ph4

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1.294 pyasn1 0.4.8-1.ph4

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ASN.1 library for Python

=====

```
.. toctree::  
    :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1 http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x) 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](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

The PyASN1 software is distributed under 2-clause BSD License.

```
.. 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](http://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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- * /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/docs/source/contents.rst
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License: <http://snmplabs.com/pyasn1/license.html>

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- * /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
- * /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/calling.py
- * /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/ber/__main__.py
- * /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
- * /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/namedval.py
- * /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_char.py
- * /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/univ.py
- * /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py

```

* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_opentype.py
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/opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/native/test_decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/octets.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/compat/test_octets.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_useful.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/base.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/test_debug.py
*
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* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_tag.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/native/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
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* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/base.py
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* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/integer.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/namedtype.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/ber/test_decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/compat/test_binary.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/debug.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/tag.py
*
/opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/error.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_namedtype.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/constraint.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/string.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_namedval.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-
0.4.8/tests/codec/native/test_encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_constraint.py
*
/opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/__main__.py

```



```
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/tagmap.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/setup.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_univ.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/der/test_decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/compat/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/useful.py
```

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.. include:: ../../LICENSE.rst

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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)
0000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>

```

```

>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats

could be found in the pyasn1-modules
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/README.md
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* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/LICENSE.rst

1.295 ndg-httpsclient 0.5.1-4.ph4

1.295.1 Available under license :

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1.296 python3-asn1crypto 1.4.0-1.ph4

1.296.1 Available under license :

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1.297 pycparser 2.20-1.ph4

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pycparser -- A C parser in Python

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This is a list of people who have contributed to pycparser by supplying patches, opening issues, or generally helping out, before the project moved to Github.

For more recent contributions, check out the "Contributors" page of the pycparser Github project.

The list is sorted in increasing alphabetic order by first name.

- * Andreas Klckner
- * Andrew de los Reyes
- * Benoit Pradelle
- * Dov Feldstern
- * Even Wiik Thomassen

- * Greg Smith
- * Jaroslav Franek
- * Li Xuan Ji
- * Mateusz Czaplinski
- * Paolo Di Maio
- * Rory Yorke
- * Rubin
- * Scott Tsai
- * Sye van der Veen
- * Thomas W. Barr
- * Tomer Segal
- * Weyllor

1.298 ip-address 1.0.23-1.ph4

1.298.1 Available under license :

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1.299 vcversioner 2.16.0.0-2.ph4

1.299.1 Available under license :

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Metadata-Version: 1.1

Name: vcversioner

Version: 2.16.0.0

Summary: Use version control tags to discover version numbers

Home-page: <https://github.com/habnabit/vcversioner>

Author: Aaron Gallagher

Author-email: ._@habnab.it

License: ISC

Description: .. image:: <https://travis-ci.org/habnabit/vcversioner.png>

```
=====  
vcversioner  
=====
```

`Elevator pitch`_: you can write a ``setup.py`` with no version information specified, and vcversioner will find a recent, properly-formatted VCS tag and extract a version from it.

It's much more convenient to be able to use your version control system's tagging mechanism to derive a version number than to have to duplicate that

information all over the place. I eventually ended up copy-pasting the same code into a couple different ``setup.py`` files just to avoid duplicating version information. But, copy-pasting is dumb and unit testing ``setup.py`` files is hard. This code got factored out into `vcversioner`.

Basic usage

`vcversioner` installs itself as a `setuptools` hook, which makes its use exceedingly simple::

```
from setuptools import setup

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={},
)
```

The presence of a ```vcversioner``` argument automatically activates `vcversioner` and updates the project's version. The parameter to the ```vcversioner``` argument can also be a dict of keyword arguments which `|find_version|` will be called with.

To allow tarballs to be distributed without requiring a ```.git``` (or ```.hg``` , etc.) directory, `vcversioner` will also write out a file named (by default) ```version.txt```. Then,

if there is no VCS program or the program is unable to find any version information, `vcversioner` will read version information from the ```version.txt``` file. However, this file needs to be included in a distributed tarball, so the following line should be added to ```MANIFEST.in```:

```
include version.txt
```

This isn't necessary if ```setup.py``` will always be run from a checkout, but otherwise is essential for `vcversioner` to know what version to use.

The name ```version.txt``` also can be changed by specifying the ```version_file``` parameter. For example::

```
from setuptools import setup

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        'version_file': 'custom_version.txt',
    },
)
```

```
    },  
)
```

For compatibility with `semantic versioning`, `vcversioner` will strip

leading `v`s from version tags. That is, the tag `v1.0` will be treated as if it was `1.0`.

Other prefixes can be specified to be stripped by using the `strip_prefix` argument to `vcversioner`. For compatibility with `git-dch`, one could specify the `strip_prefix` as `debian/`.

Non-hook usage

It's not necessary to depend on `vcversioner`; while `pip` will take care of dependencies automatically, sometimes having a self-contained project is simpler. `vcversioner` is a single file which is easy to add to a project. Simply copy the entire `vcversioner.py` file adjacent to the existing `setup.py` file and update the usage slightly::

```
from setuptools import setup  
import vcversioner  
  
setup(  
    # [...]  
    version=vcversioner.find_version().version,  
)
```

This is necessary because the `vcversioner` distutils hook won't be available.

Version modules

`setup.py` isn't the only place that version information gets duplicated. By generating a version module, the `__init__.py` file of a package can import version information. For example, with a package named `spam`::

```
from setuptools import setup  
  
setup(  
    # [...]  
    setup_requires=['vcversioner'],  
    vcversioner={
```

```

        'version_module_paths': ['spam/_version.py'],
    },
)

```

This will generate a `spam/_version.py` file that defines `__version__` and `__revision__`. Then, in `spam/__init__.py`:

```

from spam._version import __version__, __revision__

```

Since this acts like (and *is*) a regular python module, changing

`MANIFEST.in` is not required.

Customizing VCS commands

`vcversioner` by default tries to detect which VCS is being used and picks a command to run based on that. For git, that is `git --git-dir %(root)s/.git describe --tags --long`. For hg, that is `hg log -R %(root)s -r . --template '{latesttag}-{latesttagdistance}-hg{node|short}'`.

Any command should output a string that describes the current commit in the format `1.0-0-gdeadbeef`. Specifically, that is `<version number>-<number of commits between the current commit and the version tagged commit>-<revision>`. The revision should have a VCS-specific prefix, e.g. `g` for git and `hg` for hg.

However, sometimes this isn't sufficient. If someone wanted to only use annotated tags, the git command could be amended like so:

```

from setuptools
import setup

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        'vcs_args': ['git', 'describe', '--long'],
    },
)

```

The `vcs_args` parameter must always be a list of strings, which will not be interpreted by the shell. This is the same as what `subprocess.Popen` expects.

This argument used to be spelled `git_args` until support for multiple VCS systems was added.

Development versions

vcversioner can also automatically make a version that corresponds to a commit that isn't itself tagged. Following `PEP 386`, this is done by adding a ``.post`` suffix to the version specified by a tag on an earlier commit. For example, if the current commit is three revisions past the ``1.0`` tag, the computed version will be ``1.0.post3``.

This behavior can be disabled by setting the ``include_dev_version`` parameter to ``False``. In that case, the aforementioned untagged commit's version would be just ``1.0``.

Since hg requires a commit to make a tag, there's a parameter ``decrement_dev_version`` to subtract one from the number of commits after the most recent tag. If the VCS used is detected to be hg (i.e. the revision starts with ``hg``) and ``decrement_dev_version`` is not specified as ``False``, ``decrement_dev_version`` will be automatically set to ``True``.

Project roots

In order to prevent contamination from other source repositories, vcversioner in the 1.x version series will only look in the project root directory for repositories. The project root defaults to the current working directory, which is often the case when running setup.py.

This can be changed by specifying the

``root`` parameter. Someone concerned with being able to run setup.py from directories other than the directory containing setup.py should determine the project root from ``__file__`` in setup.py::

```
from setuptools import setup
import os

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        'root': os.path.dirname(os.path.abspath(__file__)),
    },
)
```

To get the same behavior in the 0.x version series, ``vcs_args`` can be set to include the ``--git-dir`` flag::

```

from setuptools import setup

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        vcs_args=['git', '--git-dir', '%(root)s/.git', 'describe',
                 '--tags', '--long'],
    },
)

```

By default, ``version.txt`` is also read from the project root.

Substitutions

~~~~~

As seen above, `*root*`, `*version_file*`, and `*vcs_args*` each support some substitutions:

```%(root)s```

The value provided for `*root*`. This is not available for the `*root*` parameter itself.

```%(pwd)s```

The current working directory.

```/^``` will automatically be translated into the correct path separator for the current platform, such as ```:``` or ```\```.

### Sphinx documentation

-----

```Sphinx``` documentation is yet another place where version numbers get duplicated. Fortunately, since sphinx configuration is python code, `vcversioner` can be used there too. Assuming `vcversioner` is installed system-wide, this is quite easy. Since Sphinx is typically run with the current working directory as

```<your project root>/docs```, it's necessary to tell `vcversioner` where the project root is. Simply change your ```conf.py``` to include::

```

import vcversioner
version = release = vcversioner.find_version(root='..').version

```

This assumes that your project root is the parent directory of the current working directory. A slightly longer version which is a little more robust

would be::

```
import vcversioner, os
version = release = vcversioner.find_version(
    root=os.path.dirname(os.path.dirname(os.path.abspath(__file__))))).version
```

This version is more robust because it finds the project root not relative to the current working directory but instead relative to the ``conf.py`` file.

If vcversioner is bundled with your project instead of relying on it being installed, you might have to add the following to your ``conf.py`` before

```
``import vcversioner``::

import sys, os
sys.path.insert(0, os.path.abspath('.'))
```

This line, or something with the same effect, is sometimes already present when using the sphinx ``autodoc`` extension.

## Read the Docs

~~~~~

Using vcversioner is even possible when building documentation on `Read the Docs`_. If vcversioner is bundled with your project, nothing further needs to be done. Otherwise, you need to tell Read the Docs to install vcversioner before it builds the documentation. This means using a ``requirements.txt`` file.

If your project is already set up to install dependencies with a ``requirements.txt`` file, add ``vcversioner`` to it. Otherwise, create a ``requirements.txt`` file. Assuming your documentation is in a ``docs`` subdirectory of the main project directory, create ``docs/requirements.txt`` containing a ``vcversioner`` line.

Then, make the following changes to your project's configuration: (Project configuration is edited at e.g. <https://readthedocs.org/dashboard/vcversioner/edit/>)

- Check the checkbox under **Use virtualenv**.
- If there was no ``requirements.txt`` previously, set the **Requirements file** to the newly-created one, e.g. ``docs/requirements.txt``.

.. _Elevator pitch: http://en.wikipedia.org/wiki/Elevator_pitch

.. _pip: <https://pypi.python.org/pypi/pip>

.. _PEP 386: <http://www.python.org/dev/peps/pep-0386/>
.. _Sphinx: <http://sphinx-doc.org>
.. _Read the Docs: <https://readthedocs.org/>
.. _semantic versioning: <http://semver.org/>

.. |find_version| replace:: ``find_version``

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier:

Intended Audience :: Developers

Classifier: License :: OSI Approved :: ISC License (ISCL)

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Topic :: Software Development :: Version Control

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* /opt/cola/permits/1175617864_1626889955.84/0/vcversioner-2-16-0-0-1-tar-gz/vcversioner-

2.16.0.0/vcversioner.egg-info/PKG-INFO

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1.300 paramiko 2.7.2-1.ph4

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1.301 cffi 1.14.3-2.ph4

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.302 ws4py 0.5.1

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1.303 simplejson 3.17.2-1.ph4

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.304 mtd-utils 2.1.2

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1.306 pluggy 0.13.1-1.ph4

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.307 wewidth 0.2.5-1.ph4

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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

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Release	Derived	Year	Owner	GPL-
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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	
2.1.2	2.1.1	2002	PSF	yes	
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1.308 six 1.15.0-3.ph4

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1.310 pam 1.3.1-14.el8

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1.312 shadow 4.8.1

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1.315 gobject-introspection 1.64.1

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1.316 util-linux 2.36

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1.317 btrfsutil 1.2.0

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.318 binutils 2.35.1

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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.319 backports-functools-lru-cache 1.6.1

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```

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```

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```

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '
'))"/>

<xsl:text>
</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '
')"/>

<xsl:if test="translate(\$rest, '	 ', '')">

```

<xsl:call-template name="isc.copyright.format">
  <xsl:with-param name="text" select="$rest"/>
</xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of
        select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

```

- Local variables:
- mode: sgml
- End:

```

-->

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1.323 setuptools-scm 4.1.2

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1.324 pytest 0.0.0

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```
from setuptools import setup
```

```
setup(  
    name='pygments_pytest',  
    description='A pygments lexer for pytest output.',  
    url='https://github.com/asottile/pygments-pytest',  
    version='0.0.0',  
    author='Anthony Sottile',  
    author_email='asottile@umich.edu',  
    classifiers=[  
        'License :: OSI Approved :: MIT License',  
        'Programming Language :: Python :: 2',  
        'Programming Language :: Python :: 2.7',  
        'Programming Language :: Python :: 3',  
        'Programming Language :: Python :: 3.6',  
        'Programming Language :: Python :: Implementation :: CPython',
```

```
'Programming Language :: Python :: Implementation :: PyPy',
],
install_requires=['pygments'],
py_modules=['pygments_pytest'],
entry_points={'pygments.lexers': ['pytest=pygments_pytest:PytestLexer']},
)
```

Found in path(s):

```
* /opt/cola/permits/1161008168_1636522430.12/0/pygments-pytest-0-0-0-tar-gz/pygments_pytest-0.0.0/setup.py
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```

Metadata-Version: 1.1

Name: pygments_pytest

Version: 0.0.0

Summary: A pygments lexer for pytest output.

Home-page: <https://github.com/asottile/pygments-pytest>

Author: Anthony Sottile

Author-email: asottile@umich.edu

License: UNKNOWN

Description: UNKNOWN

Platform: UNKNOWN

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Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

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* /opt/cola/permits/1161008168_1636522430.12/0/pygments-pytest-0-0-0-tar-gz/pygments_pytest-0.0.0/PKG-INFO
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```

Metadata-Version: 1.1

Name: pygments-pytest

Version: 0.0.0

Summary: A pygments lexer for pytest output.

Home-page: <https://github.com/asottile/pygments-pytest>

Author: Anthony Sottile

Author-email: asottile@umich.edu

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Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Found in path(s):

* /opt/cola/permits/1161008168_1636522430.12/0/pygments-pytest-0-0-0-tar-gz/pygments_pytest-0.0.0/pygments_pytest.egg-info/PKG-INFO

1.325 tdb 1.43

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1.327 luajit 2.1.0.beta3

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1.329 go-capability 0.0.0-20200815063812-42c35b437635

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1.330 netns 0.0.0-20191106174202-0a2b9b5464df

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1.331 blackfriday 2.0.1

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1.332 sanitized-anchor-name 1.0.0

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1.333 go-criu 4.1.0

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1.334 x-sys 0.0.0-20200728102440- 3e129f6d46b1

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1.339 containerd-console 1.0.0

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tomb - support for clean goroutine termination in Go.

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

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Gocheck - A rich testing framework for Go

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Paul Borman <borman@google.com>

bmatsuo

shawnps

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package api

```
import (  
    "io/ioutil"  
    "strings"  
    "time"  
)  
  
type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`  
  
    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`  
  
    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.  
    InstallationID string `json:"installation_id"`  
  
    // The time at which the license was issued  
    IssueTime time.Time `json:"issue_time"`  
  
    // The time at which the license starts being valid  
    StartTime time.Time `json:"start_time"`  
  
    // The time after which the license expires  
    ExpirationTime time.Time `json:"expiration_time"`  
  
    // The time at which the license ceases to function and can  
    // no longer be used in any capacity  
    TerminationTime time.Time `json:"termination_time"`  
  
    // The product the license is valid for  
    Product string `json:"product"`  
  
    // License Specific Flags  
    Flags map[string]interface{ }  
    `json:"flags"`  
  
    // List of features enabled by the license  
    Features []string `json:"features"`  
}  
  
type LicenseReply struct {  
    Valid bool  
    License *License
```

```

Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
var reply LicenseReply
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
return nil, err
} else {
return &reply, nil
}
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
r := op.c.newRequest("GET", "/v1/operator/license")
r.params.Set("signed", "1")
r.setQueryOptions(q)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
return "", err
}
defer resp.Body.Close()

data, err := ioutil.ReadAll(resp.Body)
if err != nil {
return "", err
}

return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func
(op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
var reply LicenseReply
r := op.c.newRequest("DELETE", "/v1/operator/license")
r.setWriteOptions(opts)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
return nil, err
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
return nil, err
}

return &reply, nil
}

```

```

}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.NewRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

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package spec

import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

```

```

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL string
    `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

```

Data model artifacts for Prometheus.

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* github.com/rogpeppe/go-internal - <https://github.com/rogpeppe/go-internal>

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* golang.org/x/mod/module - <https://github.com/golang/mod>

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* golang.org/x/tools/go/analysis - <https://github.com/golang/tools>

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* [gogrep](https://github.com/mvdan/gogrep) - <https://github.com/mvdan/gogrep>

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* gosmith - <https://github.com/dvyukov/gosmith>

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update-license

This is a small tool that updates the license header for Uber's open source Golang files.

Installation

```
go get go.uber.org/tools/update-license
```

Usage

```
update-license go_files...
```

Further Work

- * Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
- * Support custom owner (not just "Uber Technologies, Inc.")
- * Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
- * Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably makes more sense just to put the license at the top
- * Better detection support for existing licenses so they can be removed
- * Verbose, dry run support

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.343 iniconfig 0.0.0

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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.

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Release	Derived	Year	Owner	GPL-
	from			compatible? (1)

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.347 paramiko 2.7.2

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Any

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1.348 networkx 2.5

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1.350 dnsmasq 2.84rc2

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```
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```

```
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1.352 keyutils 1.5.10

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```

```
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.353 nginx 1.15.8.3

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1.356 goprotobuf 1.4.2

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1.358 cyrus-sasl 2.1.28

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1.359 yarl 1.6.2

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1.360 webcolors 1.11.1

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1.361 oauthlib 3.1.0-1.ph4

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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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.362 cJSON 2.1.0

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1.363 libcap-ng 2.26-4.el8

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1.364 yajl 2.0

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1.365 grpc-go 1.46.0

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1.366 pycparser 2.20

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pycparser -- A C parser in Python

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1.367 six 1.15.0

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1.368 pynacl 1.4.0

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That's all there is to it!

1.374 golang 1.15.8

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# An entry with multiple email addresses specifies that the
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1.375 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.376 inotify-tools 3.22.6.0

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1.377 open-ldap 2.6.3

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1.384 pyyaml 5.3.1-1

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1.385 erlang-otp 22.3.4.17

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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The basic library functions are written in C and are freestanding.

Also
included in the distribution is a set of C++ wrapper functions, and a
just-in-time compiler that can be used to optimize pattern matching. These
are both optional features that can be omitted when the library is built.

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[Misc

C library code]

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[zlib]

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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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```
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```

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```
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```

The hypothetical

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1.387 gpgme 1.13.1

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```

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

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* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather
 lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.

*

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*
* M. Welsh, 6 July 1996
*
*
*/

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1.392 screen 4.9.0

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1.393 nfs-utils 2.6.2

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1.394 openssl 1.1.1s

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1.395 systemd 246

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1.396 cherrypy 17.3.0

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1.398 sphinx 2.2.0

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```

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* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Documentation/Index.rst
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* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Classes/Slots/LatexPostProcessor.php
* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Classes/Slots/CustomProject.php
*
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* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/class.ext_update.php
* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Classes/Controller/DocumentationController.php
* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Classes/Slots/SphinxDocumentation.php
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* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Classes/Domain/Model/Extension.php
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* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Classes/Utility/SphinxBuilder.php
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*
/opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Classes/ViewHelpers/IncludeMessagesViewHelper.php
* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Tests/Unit/Utility/MiscUtilityTest.php
* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Classes/ViewHelpers/Form/UploadViewHelper.php
* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-bf4c7a4/Classes/Utility/Setup.php
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t3ext-sphinx-bf4c7a4/Classes/Utility/OpenOfficeConverter.php
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bf4c7a4/Documentation/Localization.fr_FR/AdvancedUsersManual/RenderingPdf/IntroductionLaTeX.rst
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t3ext-sphinx-bf4c7a4/Documentation/AdvancedUsersManual/RenderingPdf/IntroductionLaTeX.rst
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```

/*

```

* File:    jquery.dataTables.min.js
* Version: 1.9.4
* Author:  Allan Jardine (www.sprymedia.co.uk)

```

* Info: www.datatables.net
*
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```
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 *
 * @version 1.09i
 */
```

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```
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t3ext-sphinx-bf4c7a4/Resources/Public/docs.typo3.org/t3extras/js/cufon.js
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```

```
/*
 * Default Layout Theme
 *
 * Created for jquery.layout
 *
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 *
 * Last Updated: 2010-02-10
 * NOTE: For best code readability, view this with a fixed-space font and tabs equal to 4-chars
 */
```

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t3ext-sphinx-bf4c7a4/Resources/Private/Scss/page/_jquery.layout.scss
* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-
t3ext-sphinx-bf4c7a4/Resources/Public/Css/main.css
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```

```
/*
jquery.layout 1.3.0 - Release Candidate 30.79
$Date: 2013-01-01 08:00:00 (Tue, 1 Jan 2013) $
$Rev: 303007 $
```

Copyright (c) 2013 Kevin Dalman (<http://allpro.net>)
Based on work by Fabrizio Balliano (<http://www.fabrizioballiano.net>)
Fixed by Xavier Perseguers to prevent JS error when hovering a `jquery.selectBoxIt` dropdown

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Docs: <http://layout.jquery-dev.net/documentation.html>

Tips: <http://layout.jquery-dev.net/tips.html>

Help: <http://groups.google.com/group/jquery-ui-layout>

*/

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* /opt/cola/permits/1536485509_1674054707.7257805/0/kiefer79-t3ext-sphinx-2-2-0-0-gbf4c7a4-1-zip/kiefer79-t3ext-sphinx-

bf4c7a4/Resources/Private/Templates/Projects/TYPO3DocProject/Localization.fr_FR.tmpl/MasterDocument.rst.tmpl

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/*

* jQuery Easing v1.3 - <http://gsgd.co.uk/sandbox/jquery/easing/>

*

* Uses the built in easing capabilities added In jQuery 1.1

* to offer multiple easing options

*

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1.399 tempora 1.13

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1.400 jaraco-functools 1.20

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1.401 zc-lockfile 1.3.0

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1.403 pciutils 3.9.0

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and

performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a

newer

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also 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.)

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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Defining a subclass of a class defined by the Library is
deemed a mode
of using an interface provided by the Library.

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1.405 less 4.1.3

1.405.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/**
 * Less - Leaner CSS v4.1.3
 * http://lesscss.org
 *
 * Copyright (c) 2009-2022, Alexis Sellier <self@cloudhead.net>
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***** */

Found in path(s):
* /opt/cola/permits/1550489314_1675273249.1374285/0/less-4-1-3-2-tgz/package/dist/less.js
```

No license file was found, but licenses were detected in source scan.

```
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conversions.js","../src/less/data/index.js","../src/less/tree/node.js","../src/less/tree/color.js","../src/less/tree/paren.js",".  
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listener.js","../src/less-browser/cache.js","../src/less-browser/image-size.js","sourcesContent":["\nexport  
function extractId(href) {\n  return href.replace(/^([a-z-]+:)?(?:[^\s/]+/)? // Remove protocol & domain\n  .replace(/(?:[?&]livereload=\\w+/,) // Remove LiveReload cachebuster\n  .replace(/^\\|/,) //  
Remove root\n  .replace(/^[a-zA-Z]+$/,) // Remove simple extension\n  .replace(/(?:^|\\|\\w-)+/, '-  
) // Replace  
illegal characters\n  .replace(/\\|/g, ':'); // Replace dots with colons(for valid id)\n}\n\nexport  
function addDataAttr(options, tag) {\n  if (!tag) {return;} // in case of tag is null or undefined\n  for (const opt in  
tag.dataset) {\n    if (tag.dataset.hasOwnProperty(opt)) {\n      if (opt === 'env' || opt === 'dumpLineNumbers'  
|| opt === 'rootpath' || opt === 'errorReporting') {\n        options[opt] = tag.dataset[opt];\n      } else {\n        try {\n          options[opt] = JSON.parse(tag.dataset[opt]);\n        } catch (_){}\n      }\n    }\n  }\n}\n\nimport * as utils from './utils';\n\nexport default {\n  createCSS: function (document, styles, sheet)  
{\n  // Strip the query-string\n  const href = sheet.href || '';\n  // If there is no title set, use the filename,
```

```

minus the extension\n    const id = `less:${sheet.title || utils.extractId(href)}`; \n\n
    // If this has already been inserted into the DOM, we may need to replace it\n    const oldStyleNode =
document.getElementById(id); \n    let keepOldStyleNode = false; \n\n    // Create a new stylesheet node for
insertion or (if necessary) replacement\n    const styleNode = document.createElement('style'); \n
styleNode.setAttribute('type', 'text/css'); \n    if (sheet.media) { \n        styleNode.setAttribute('media',
sheet.media); \n    } \n    styleNode.id = id; \n\n    if (!styleNode.styleSheet) { \n
styleNode.appendChild(document.createTextNode(styles)); \n\n        // If new contents match contents of
oldStyleNode, don't replace oldStyleNode\n        keepOldStyleNode = (oldStyleNode !== null &&
oldStyleNode.childNodes.length > 0 && styleNode.childNodes.length > 0 &&\n
oldStyleNode.firstChild.nodeValue === styleNode.firstChild.nodeValue); \n    } \n\n    const head =
document.getElementsByTagName('head')[0]; \n\n
    // If there is no oldStyleNode, just append; otherwise, only append if we need\n    // to replace oldStyleNode
with an updated stylesheet\n    if (oldStyleNode === null || keepOldStyleNode === false) { \n        const nextEl
= sheet && sheet.nextSibling || null; \n        if (nextEl) { \n            nextEl.parentNode.insertBefore(styleNode,
nextEl); \n        } else { \n            head.appendChild(styleNode); \n        } \n    } \n    if (oldStyleNode &&
keepOldStyleNode === false) { \n        oldStyleNode.parentNode.removeChild(oldStyleNode); \n    } \n\n    //
For IE.\n    // This needs to happen *after* the style element is added to the DOM, otherwise IE 7 and 8 may
crash.\n    // See http://social.msdn.microsoft.com/Forums/en-US/7e081b65-878a-4c22-8e68-
c10d39c2ed32/internet-explorer-crashes-appending-style-element-to-head\n    if (styleNode.styleSheet) { \n
try { \n        styleNode.styleSheet.cssText
= styles; \n    } catch (e) { \n        throw new Error('Couldn't reassign styleSheet.cssText.');

```



```

return fileManager;\n      }\n    }\n    return null;\n  }\n\n  addFileManager(fileManager) {\n
this.fileManagers.push(fileManager);\n  }\n\n  clearFileManagers() {\n    this.fileManagers = [];\n
}\n}\n\nexport default Environment;\n","export default {\n  'aliceblue': '#f0f8ff',\n  'antiquewhite': '#faebd7',\n
'aqua': '#00ffff',\n  'aquamarine': '#7fffd4',\n  'azure': '#f0ffff',\n  'beige': '#f5f5dc',\n  'bisque': '#ffe4c4',\n
'black': '#000000',\n  'blanchedalmond': '#ffebcd',\n  'blue': '#0000ff',\n  'blueviolet': '#8a2be2',\n
'brown': '#a52a2a',\n  'burlywood': '#deb887',\n  'cadetblue': '#5f9ea0',\n  'chartreuse': '#7fff00',\n
'chocolate': '#d2691e',\n
  'coral': '#ff7f50',\n  'cornflowerblue': '#6495ed',\n  'cornsilk': '#fff8dc',\n  'crimson': '#dc143c',\n
'cyan': '#00ffff',\n  'darkblue': '#00008b',\n  'darkcyan': '#008b8b',\n  'darkgoldenrod': '#b8860b',\n
'darkgray': '#a9a9a9',\n  'darkgrey': '#a9a9a9',\n  'darkgreen': '#006400',\n  'darkkhaki': '#bdb76b',\n
'darkmagenta': '#8b008b',\n  'darkolivegreen': '#556b2f',\n  'darkorange': '#ff8c00',\n  'darkorchid': '#9932cc',\n
'darkred': '#8b0000',\n  'darksalmon': '#e9967a',\n  'darkseagreen': '#8fbc8f',\n  'darkslateblue': '#483d8b',\n
'darkslategray': '#2f4f4f',\n  'darkslategrey': '#2f4f4f',\n  'darkturquoise': '#00ced1',\n  'darkviolet': '#9400d3',\n
'deeppink': '#ff1493',\n  'deepskyblue': '#00bfff',\n  'dimgray': '#696969',\n  'dimgrey': '#696969',\n
'dodgerblue': '#1e90ff',\n  'firebrick': '#b22222',\n  'floralwhite': '#fffaf0',\n  'forestgreen': '#228b22',\n
'fuchsia': '#ff00ff',\n  'gainsboro': '#dcdcdc',\n  'ghostwhite': '#f8f8ff',\n
  'gold': '#ffd700',\n  'goldenrod': '#daa520',\n  'gray': '#808080',\n  'grey': '#808080',\n  'green': '#008000',\n
'greenyellow': '#adff2f',\n  'honeydew': '#ffff00',\n  'hotpink': '#ff69b4',\n  'indianred': '#cd5c5c',\n
'indigo': '#4b0082',\n  'ivory': '#ffff00',\n  'khaki': '#f0e68c',\n  'lavender': '#e6e6fa',\n  'lavenderblush': '#fff0f5',\n
'lawngreen': '#7fcf00',\n  'lemonchiffon': '#ffffac',\n  'lightblue': '#add8e6',\n  'lightcoral': '#f08080',\n
'lightcyan': '#e0ffff',\n  'lightgoldenrodyellow': '#fafad2',\n  'lightgray': '#d3d3d3',\n  'lightgrey': '#d3d3d3',\n
'lightgreen': '#90ee90',\n  'lightpink': '#ffb6c1',\n  'lightsalmon': '#ffa07a',\n  'lightseagreen': '#20b2aa',\n
'lightskyblue': '#87cefa',\n  'lightslategray': '#778899',\n  'lightslategrey': '#778899',\n  'lightsteelblue': '#b0c4de',\n
'lightyellow': '#ffffe0',\n  'lime': '#00ff00',\n  'limegreen': '#32cd32',\n  'linen': '#fafade',\n  'magenta': '#ff00ff',\n
'maroon': '#800000',\n
  'mediumaquamarine': '#66cdaa',\n  'mediumblue': '#0000cd',\n  'mediumorchid': '#ba55d3',\n
'mediumpurple': '#9370d8',\n  'mediumseagreen': '#3cb371',\n  'mediumslateblue': '#7b68ee',\n
'mediumspringgreen': '#00fa9a',\n  'mediumturquoise': '#48d1cc',\n  'mediumvioletred': '#c71585',\n
'midnightblue': '#191970',\n  'mintcream': '#f5fffa',\n  'mistyrose': '#ffe4e1',\n  'moccasin': '#ffe4b5',\n
'navajowhite': '#ffdead',\n  'navy': '#000080',\n  'oldlace': '#fdf5e6',\n  'olive': '#808000',\n  'olivedrab': '#6b8e23',\n
'orange': '#ffa500',\n  'orangered': '#ff4500',\n  'orchid': '#da70d6',\n  'palegoldenrod': '#eee8aa',\n
'palegreen': '#98fb98',\n  'paleturquoise': '#afeeee',\n  'palevioletred': '#d87093',\n  'papayawhip': '#ffefd5',\n
'peachpuff': '#ffdab9',\n  'peru': '#cd853f',\n  'pink': '#ffc0cb',\n  'plum': '#dda0dd',\n  'powderblue': '#b0e0e6',\n
'purple': '#800080',\n  'rebeccapurple': '#663399',\n  'red': '#ff0000',\n  'rosybrown': '#bc8f8f',\n
  'royalblue': '#4169e1',\n  'saddlebrown': '#8b4513',\n  'salmon': '#fa8072',\n  'sandybrown': '#f4a460',\n
'seagreen': '#2e8b57',\n  'seashell': '#fff5ee',\n  'sienna': '#a0522d',\n  'silver': '#c0c0c0',\n  'skyblue': '#87ceeb',\n
'slateblue': '#6a5acd',\n  'slategray': '#708090',\n  'slategrey': '#708090',\n  'snow': '#fffafa',\n
'springgreen': '#00ff7f',\n  'steelblue': '#4682b4',\n  'tan': '#d2b48c',\n  'teal': '#008080',\n  'thistle': '#d8bfd8',\n
'tomato': '#ff6347',\n  'turquoise': '#40e0d0',\n  'violet': '#ee82ee',\n  'wheat': '#f5deb3',\n  'white': '#ffffff',\n
'whitesmoke': '#f5f5f5',\n  'yellow': '#ffff00',\n  'yellowgreen': '#9acd32'};\n"},"export default {\n  length: {\n
'm': 1,\n  'cm': 0.01,\n  'mm': 0.001,\n  'in': 0.0254,\n  'px': 0.0254 / 96,\n  'pt': 0.0254 / 72,\n
'pc': 0.0254 / 72 * 12\n  },\n  duration: {\n    's': 1,\n    'ms': 0.001\n  },\n  angle: {\n
  'rad': 1 / (2 * Math.PI),\n  'deg': 1 / 360,\n  'grad': 1 / 400,\n  'turn': 1\n  }\n};","import colors from
'./colors';\nimport unitConversions from './unit-conversions';\n\nexport default { colors, unitConversions };\n"},"/**\n
* The reason why Node is a class and other nodes simply do not extend\n * from Node (since we're transpiling) is
due to this issue:\n * \n * https://github.com/less/less.js/issues/3434\n */\n\n class Node {\n  constructor() {\n
this.parent = null;\n    this.visibilityBlocks = undefined;\n    this.nodeVisible = undefined;\n    this.rootNode
= null;\n    this.parsed = null;\n  }\n\n  get currentFileInfo() {\n    return this.fileInfo();\n  }\n\n  get index()

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{\n    return this.getIndex();\n }\n\n setParent(nodes, parent) {\n    function set(node) {\n        if (node &&
node instanceof Node) {\n            node.parent = parent;\n        }\n    }\n    if (Array.isArray(nodes))
{\n        nodes.forEach(set);\n    }\n    else {\n        set(nodes);\n    }\n }\n\n getIndex() {\n
return this._index || (this.parent && this.parent.getIndex()) || 0;\n }\n\n fileInfo() {\n    return this._fileInfo ||
(this.parent && this.parent.fileInfo()) || {};\n }\n\n isRulesetLike() { return false; }\n\n toCSS(context) {\n
const str = [];\n    this.genCSS(context, {\n        add: function(chunk, fileInfo, index) {\n
strs.push(chunk);\n        },\n        isEmpty: function () {\n            return strs.length === 0;\n        }\n
});\n    return strs.join(");\n }\n\n genCSS(context, output) {\n    output.add(this.value);\n }\n\n
accept(visitor) {\n    this.value = visitor.visit(this.value);\n }\n\n eval() { return this; }\n\n _operate(context,
op, a, b) {\n    switch (op) {\n        case '+': return a + b;\n        case '-': return
a - b;\n        case '*': return a * b;\n        case '/': return a / b;\n    }\n }\n\n fround(context, value) {\n
const precision = context && context.numPrecision;\n    // add "epsilon" to ensure numbers like 1.000000005
(represented as 1.000000004999...) are properly rounded:\n    return (precision) ? Number((value + 2e-
16).toFixed(precision)) : value;\n }\n\n static compare(a, b) {\n    /* returns:\n        -1: a < b\n        0: a = b\n
1: a > b\n    and *any* other value for a != b (e.g. undefined, NaN, -2 etc.) */\n    if ((a.compare) &&\n
// for "symmetric results" force toCSS-based comparison\n    // of Quoted or Anonymous if either value is
one of those\n    !(b.type === 'Quoted' || b.type === 'Anonymous')) {\n        return a.compare(b);\n    } else
if (b.compare) {\n        return -b.compare(a);\n    } else if (a.type !== b.type) {\n        return undefined;\n
}\n\n    a = a.value;\n    b = b.value;\n    if (!Array.isArray(a)) {\n        return a === b ? 0 :
undefined;\n    }\n    if (a.length !== b.length) {\n        return undefined;\n    }\n    for (let i = 0; i <
a.length; i++) {\n        if (Node.compare(a[i], b[i]) !== 0) {\n            return undefined;\n        }\n    }\n
return 0;\n }\n\n static numericCompare(a, b) {\n    return a < b ? -1\n        : a === b ? 0\n        : a >
b ? 1 : undefined;\n }\n\n // Returns true if this node represents root of ast imported by reference\n
blocksVisibility() {\n    if (this.visibilityBlocks === null) {\n        this.visibilityBlocks = 0;\n    }\n    return
this.visibilityBlocks !== 0;\n }\n\n addVisibilityBlock() {\n    if (this.visibilityBlocks === null) {\n
this.visibilityBlocks = 0;\n    }\n    this.visibilityBlocks = this.visibilityBlocks + 1;\n
}\n\n removeVisibilityBlock() {\n    if (this.visibilityBlocks === null) {\n        this.visibilityBlocks = 0;\n
}\n    this.visibilityBlocks = this.visibilityBlocks - 1;\n }\n\n // Turns on node visibility - if called node will be
shown in output regardless\n // of whether it comes from import by reference or not\n ensureVisibility() {\n
this.nodeVisible = true;\n }\n\n // Turns off node visibility - if called node will NOT be shown in output
regardless\n // of whether it comes from import by reference or not\n ensureInvisibility() {\n
this.nodeVisible = false;\n }\n\n // return values:\n // false - the node must not be visible\n // true - the node
must be visible\n // undefined or null - the node has the same visibility as its parent\n isVisible() {\n    return
this.nodeVisible;\n }\n\n visibilityInfo() {\n    return {\n        visibilityBlocks: this.visibilityBlocks,\n
nodeVisible:
this.nodeVisible\n    }; }\n\n copyVisibilityInfo(info) {\n    if (!info) {\n        return;\n    }\n
this.visibilityBlocks = info.visibilityBlocks;\n    this.nodeVisible = info.nodeVisible;\n }\n\n\nexport default
Node;\n", "import Node from './node';\nimport colors from './data/colors';\n\n\n// RGB Colors - #ff0014,
#eee\n\nconst Color = function(rgb, a, originalForm) {\n    const self = this;\n    // The end goal here, is to
parse the arguments\n    // into an integer triplet, such as `128, 255, 0`\n    // This facilitates operations and
conversions.\n    // if (Array.isArray(rgb)) {\n        this.rgb = rgb;\n    } else if (rgb.length >= 6) {\n        this.rgb
= [];\n        rgb.match(/.{2}/g).map(function (c, i) {\n            if (i < 3) {\n                self.rgb.push(parseInt(c, 16));\n
            } else {\n                self.alpha = (parseInt(c, 16)) / 255;\n            }\n        });\n    } else {\n
this.rgb = [];\n        rgb.split("").map(function (c, i) {\n            if (i < 3) {\n                self.rgb.push(parseInt(c + c,
16));\n            } else {\n                self.alpha = (parseInt(c + c, 16)) / 255;\n            }\n        });\n    }\n
this.alpha =
this.alpha || (typeof a === 'number' ? a : 1);\n    if (typeof originalForm !== 'undefined') {\n        this.value =
originalForm;\n    }\n\n\nColor.prototype = Object.assign(new Node(), {\n    type: 'Color',\n    luma() {\n        let r
= this.rgb[0] / 255, g = this.rgb[1] / 255, b = this.rgb[2] / 255;\n        r = (r <= 0.03928) ? r / 12.92 : Math.pow(((r +

```

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0.055) / 1.055), 2.4);
    g = (g <= 0.03928) ? g / 12.92 : Math.pow(((g + 0.055) / 1.055), 2.4);
    b = (b <= 0.03928) ? b / 12.92 : Math.pow(((b + 0.055) / 1.055), 2.4);
    return 0.2126 * r + 0.7152 * g + 0.0722 * b;
},
genCSS(context, output) {
    output.add(this.toCSS(context));
},
toCSS(context,
doNotCompress)
{
    const compress = context && context.compress && !doNotCompress;
    let color;
    let alpha;
    let colorFunction;
    let args = [];
    // `value` is set if this color was originally
    // converted from a
    named color string so we need
    // to respect this and try to output named color too.
    alpha =
this.fround(context, this.alpha);
    if (this.value) {
        if (this.value.indexOf('rgb') === 0) {
            if
(alpha < 1) {
                colorFunction = 'rgba';
            }
            } else if (this.value.indexOf('hsl') === 0) {
                if
(alpha < 1) {
                    colorFunction = 'hsla';
                }
                } else {
                    colorFunction =
'hsl';
                }
            } else {
                return this.value;
            }
            } else {
                if (alpha < 1) {
                    colorFunction = 'rgba';
                }
            }
        }
        switch (colorFunction) {
            case 'rgba':
                args = this.rgb.map(function (c) {
                    return clamp(Math.round(c), 255);
                }).concat(clamp(alpha, 1));
                break;
            case 'hsla':
                args.push(clamp(alpha, 1));
                case 'hsl':
                    color = this.toHSL();
                    args = [
this.fround(context, color.h),
`${this.fround(context, color.s * 100)}%`,
`${this.fround(context, color.l * 100)}%`
                    ].concat(args);
                }
            }
            if (colorFunction) {
                //
                Values are capped between `0` and `255`, rounded and zero-padded.
                return
                `${colorFunction}(${args.join(`,${compress ? " " : ""}`)})`;
            }
            color = this.toRGB();
            if
(compress) {
                const splitcolor = color.split("");
                // Convert color to short format
                if (splitcolor[1] === splitcolor[2] && splitcolor[3] === splitcolor[4] && splitcolor[5] === splitcolor[6]) {
                    color = `#${splitcolor[1]}${splitcolor[3]}${splitcolor[5]}`;
                }
            }
            return color;
        },
        //
        // Operations have to be done per-channel, if not,
        // channels will spill onto each other. Once we have
        // our result, in the form of an integer triplet,
        // we create a new Color node to hold the result.
        //
        operate(context, op, other) {
            const rgb = new Array(3);
            const alpha = this.alpha * (1 - other.alpha) +
other.alpha;
            for (let c = 0; c < 3; c++) {
                rgb[c] = this._operate(context, op, this.rgb[c], other.rgb[c]);
            }
            return new Color(rgb, alpha);
        },
        toRGB() {
            return toHex(this.rgb);
        },
        toHSL()
{
            const r = this.rgb[0] / 255, g = this.rgb[1] / 255, b = this.rgb[2] / 255, a = this.alpha;
            const max =
Math.max(r, g, b), min = Math.min(r, g, b);
            let h;
            let s;
            const l = (max + min) / 2;
            const d =
max - min;
            if (max === min) {
                h = s = 0;
            } else {
                s = l > 0.5 ? d / (2 - max - min) : d
/ (max + min);
                switch (max) {
                    case r: h = (g - b) / d + (g < b ? 6 : 0); break;
                    case g:
h = (b - r) / d + 2; break;
                    case b: h = (r - g) / d + 4; break;
                }
                h /= 6;
            }
            return { h: h * 360, s, l, a };
        },
        // Adapted from http://mijackson.com/2008/02/rgb-to-hsl-and-rgb-
to-hsv-color-model-conversion-algorithms-in-javascript
        toHSV() {
            const r = this.rgb[0] / 255, g =
this.rgb[1] / 255, b = this.rgb[2] / 255, a = this.alpha;
            const max = Math.max(r, g, b), min = Math.min(r, g,
b);
            let h;
            let s;
            const v = max;
            const d = max - min;
            if (max === 0) {
                s = 0;
            } else {
                s = d / max;
            }
            if (max === min) {
                h = 0;
            } else {
                switch (max) {
                    case r: h = (g - b) / d + (g < b ? 6 : 0); break;
                    case g: h = (b - r) / d + 2; break;
                    case b: h = (r - g) / d + 4; break;
                }
                h /= 6;
            }
            return { h: h * 360, s, v, a };
        },
        toARGB() {
            return toHex([this.alpha * 255].concat(this.rgb));
        },
        compare(x) {
            return (x.rgb &&
x.rgb[0] === this.rgb[0] &&
x.rgb[1] ===
this.rgb[1] &&
x.rgb[2] === this.rgb[2] &&
x.alpha === this.alpha) ? 0 : undefined;
        }
    });
    Color.fromKeyword = function(keyword) {
        let c;
        const key = keyword.toLowerCase();
        if
(colors.hasOwnProperty(key)) {
            c = new Color(colors[key].slice(1));
        }
        else if (key ===
'transparent') {
            c = new Color([0, 0, 0], 0);
        }
        if (c) {
            c.value = keyword;
            return c;
        }
    };
    function clamp(v, max) {
        return Math.min(Math.max(v, 0), max);
    }
    function toHex(v) {
        return
`${v.map(function (c) {
            c = clamp(Math.round(c), 255);
            return (c < 16 ? '0' : "") + c.toString(16);
        }).join("")}`;
    }
    export default Color;
    "import Node from './node';
const Paren = function(node) {

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this.value = node;\n};\n\nParen.prototype = Object.assign(new Node(), {\n  type: 'Paren',\n\n  genCSS(context,
output) {\n  output.add('(');\n  this.value.genCSS(context, output);\n  output.add(')');\n  },\n\n  eval(context) {\n  return new Paren(this.value.eval(context));\n  });\n\n\nexport default Paren;\n\n","import
Node from './node';\n\nconst _noSpaceCombinators = {\n  "': true,\n  "'": true,\n  "|": true\n};\n\nconst Combinator =
function(value) {\n  if (value === ' ')\n  {\n    this.value = ' ';\n    this.emptyOrWhitespace = true;\n  } else {\n    this.value = value ? value.trim() :
";\n    this.emptyOrWhitespace = this.value === ";\n  }\n}\n\nCombinator.prototype = Object.assign(new
Node(), {\n  type: 'Combinator',\n\n  genCSS(context, output) {\n    const spaceOrEmpty = (context.compress ||
_noSpaceCombinators[this.value]) ? " ' " : " ' ";\n    output.add(spaceOrEmpty + this.value + spaceOrEmpty);\n
  }\n});\n\n\nexport default Combinator;\n\n","import Node from './node';\n\nimport Paren from './paren';\n\nimport
Combinator from './combinator';\n\nconst Element = function(combinator, value, isVariable, index, currentFileInfo,
visibilityInfo) {\n  this.combinator = combinator instanceof Combinator ?\n  combinator : new
Combinator(combinator);\n\n  if (typeof value === 'string') {\n    this.value = value.trim();\n  } else if (value)\n  {\n    this.value = value;\n  } else {\n    this.value = ";\n  }\n\n  this.isVariable = isVariable;\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n\n  this.copyVisibilityInfo(visibilityInfo);\n  this.setParent(this.combinator, this);\n}\n\n\nElement.prototype =
Object.assign(new Node(), {\n  type: 'Element',\n\n  accept(visitor) {\n    const value = this.value;\n    this.combinator = visitor.visit(this.combinator);\n    if (typeof value === 'object') {\n      this.value =
visitor.visit(value);\n    }\n  },\n\n  eval(context) {\n    return new Element(this.combinator,\n    this.value.eval ? this.value.eval(context) : this.value,\n    this.isVariable,\n    this.getIndex(),\n    this.fileInfo(), this.visibilityInfo());\n  },\n\n  clone() {\n    return new Element(this.combinator,\n    this.value,\n    this.isVariable,\n    this.getIndex(),\n    this.fileInfo(), this.visibilityInfo());\n  },\n\n  genCSS(context, output) {\n
    output.add(this.toCSS(context), this.fileInfo(), this.getIndex());\n  },\n\n  toCSS(context) {\n    context =
context || {};\n    let value = this.value;\n    const firstSelector = context.firstSelector;\n    if (value instanceof
Paren) {\n      // selector in parens should not be affected by outer selector\n      // flags (breaks only
interpolated selectors - see #1973)\n      context.firstSelector = true;\n    }\n    value = value.toCSS ?
value.toCSS(context) : value;\n    context.firstSelector = firstSelector;\n    if (value === " &\n
this.combinator.value.charAt(0) === '&') {\n      return ";\n    } else {\n      return
this.combinator.toCSS(context) + value;\n    }\n  }\n});\n\n\nexport default Element;\n\n",""\n\nexport const Math = {\n
  ALWAYS: 0,\n  PARENS_DIVISION: 1,\n  PARENS: 2\n  // removed - STRICT_LEGACY: 3\n};\n\n\nexport
const RewriteUrls = {\n  OFF: 0,\n  LOCAL: 1,\n  ALL: 2\n};\n\n","/**\r\n
* Returns the object type of the given payload\r\n * @param {*} payload\r\n * @returns {string}\r\n
*/\r\nfunction getType(payload) {\r\n  return Object.prototype.toString.call(payload).slice(8, -1);\r\n}\r\n/**\r\n
* Returns whether the payload is undefined\r\n * @param {*} payload\r\n * @returns {payload is undefined}\r\n
*/\r\nfunction isUndefined(payload) {\r\n  return getType(payload) === 'Undefined';\r\n}\r\n/**\r\n
* Returns whether the payload is null\r\n * @param {*} payload\r\n * @returns {payload is null}\r\n
*/\r\nfunction isNull(payload) {\r\n  return getType(payload) === 'Null';\r\n}\r\n/**\r\n
* Returns whether the payload is a plain JavaScript object (excluding special classes or objects with other prototypes)\r\n * @param {*} payload\r\n
* @returns {payload is Record<string, any>}\r\n
*/\r\nfunction isPlainObject(payload) {\r\n  if (getType(payload) !== 'Object')\r\n    return false;\r\n  return payload.constructor === Object &&
Object.getPrototypeOf(payload) === Object.prototype;\r\n}\r\n/**\r\n
* Returns whether the payload is a plain JavaScript object (excluding special classes or objects with other prototypes)\r\n * @param {*} payload\r\n
* @returns {payload is Record<string, any>}\r\n
*/\r\nfunction isObject(payload) {\r\n  return isPlainObject(payload);\r\n}\r\n/**\r\n
* Returns whether the payload is an empty object (excluding special classes or objects with other prototypes)\r\n * @param {*} payload\r\n
* @returns {payload is [K in any]: never}\r\n
*/\r\nfunction isEmptyObject(payload) {\r\n  return isPlainObject(payload) && Object.keys(payload).length === 0;\r\n}\r\n}\r\n/**\r\n
* Returns whether the payload is an any kind of object (including special classes or objects

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with different prototypes)\r\n * \r\n * @param {*} payload\r\n * @returns {payload is Record<string, any>}\r\n
* \r\n\r\nfunction isAnyObject(payload) {\r\n  return getType(payload) === 'Object';\r\n}\r\n\r\n/**\r\n * Returns
  whether the payload is an object like a type passed in <>\r\n * \r\n * Usage: isObjectLike<{id: any}>(payload) //
  will make sure it's an object and has an `id` prop.\r\n * \r\n * @template T this must be passed in <>\r\n * @param
  {*} payload\r\n * @returns {payload is T}\r\n * \r\n\r\nfunction isObjectLike(payload) {\r\n  return
  isAnyObject(payload);\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a function (regular or async)\r\n * \r\n *
  @param {*} payload\r\n * @returns {payload is AnyFunction}\r\n * \r\n\r\nfunction isFunction(payload) {\r\n  return
  typeof payload === 'function';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is an array\r\n * \r\n * @param {any}
  payload\r\n * @returns {payload is any[]}\r\n * \r\n\r\nfunction isArray(payload) {\r\n  return getType(payload) ===
  'Array';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a an array with at least 1 item\r\n * \r\n * @param {*}
  payload\r\n * @returns {payload is any[]}\r\n * \r\n\r\nfunction isArrayFull(payload) {\r\n  return
  isArray(payload) && payload.length > 0;\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a an empty array\r\n * \r\n *
  @param {*} payload\r\n * @returns {payload is []}\r\n * \r\n\r\nfunction isEmptyArray(payload) {\r\n  return
  isArray(payload) && payload.length === 0;\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a string\r\n * \r\n *
  @param {*} payload\r\n * @returns {payload is string}\r\n * \r\n\r\nfunction isString(payload) {\r\n  return
  getType(payload) === 'String';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a string, BUT returns false for "\r\n
  * \r\n * @param {*} payload\r\n * @returns {payload is string}\r\n * \r\n\r\nfunction isFullString(payload) {\r\n  return
  isString(payload) && payload !== '';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is "\r\n * \r\n * @param {*}
  payload\r\n * @returns {payload is string}\r\n * \r\n\r\nfunction isEmptyString(payload) {\r\n  return payload ===
  '';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a number (but not NaN)\r\n * \r\n * This
  will return `false` for `NaN`!\r\n * \r\n * @param {*} payload\r\n * @returns {payload is number}\r\n
  * \r\n\r\nfunction isNumber(payload) {\r\n  return getType(payload) === 'Number' &&
  !isNaN(payload);\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a boolean\r\n * \r\n * @param {*} payload\r\n *
  @returns {payload is boolean}\r\n * \r\n\r\nfunction isBoolean(payload) {\r\n  return getType(payload) ===
  'Boolean';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a regular expression (RegExp)\r\n * \r\n * @param {*}
  payload\r\n * @returns {payload is RegExp}\r\n * \r\n\r\nfunction isRegExp(payload) {\r\n  return getType(payload)
  === 'RegExp';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a Map\r\n * \r\n * @param {*} payload\r\n *
  @returns {payload is Map<any, any>}\r\n * \r\n\r\nfunction isMap(payload) {\r\n  return getType(payload) ===
  'Map';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a WeakMap\r\n * \r\n * @param {*} payload\r\n * @returns
  {payload is WeakMap<any, any>}\r\n * \r\n\r\nfunction
  isWeakMap(payload) {\r\n  return getType(payload) === 'WeakMap';\r\n}\r\n\r\n/**\r\n * Returns whether the
  payload is a Set\r\n * \r\n * @param {*} payload\r\n * @returns {payload is Set<any>}\r\n * \r\n\r\nfunction
  isSet(payload) {\r\n  return getType(payload) === 'Set';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a
  WeakSet\r\n * \r\n * @param {*} payload\r\n * @returns {payload is WeakSet<any>}\r\n * \r\n\r\nfunction
  isWeakSet(payload) {\r\n  return getType(payload) === 'WeakSet';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is
  a Symbol\r\n * \r\n * @param {*} payload\r\n * @returns {payload is symbol}\r\n * \r\n\r\nfunction
  isSymbol(payload) {\r\n  return getType(payload) === 'Symbol';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a Date, and that the
  date is valid\r\n * \r\n * @param {*} payload\r\n * @returns {payload is Date}\r\n * \r\n\r\nfunction
  isDate(payload) {\r\n  return getType(payload) === 'Date' && !isNaN(payload);\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a
  Blob\r\n
  * \r\n * @param {*} payload\r\n * @returns {payload is Blob}\r\n * \r\n\r\nfunction isBlob(payload) {\r\n  return
  getType(payload) === 'Blob';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a File\r\n * \r\n * @param {*}
  payload\r\n * @returns {payload is File}\r\n * \r\n\r\nfunction isFile(payload) {\r\n  return getType(payload) ===
  'File';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is a Promise\r\n * \r\n * @param {*} payload\r\n *
  @returns {payload is Promise<any>}\r\n * \r\n\r\nfunction isPromise(payload) {\r\n  return getType(payload) ===
  'Promise';\r\n}\r\n\r\n/**\r\n * Returns whether the payload is an Error\r\n * \r\n * @param {*} payload\r\n *
  @returns {payload is Error}\r\n * \r\n\r\nfunction isError(payload) {\r\n  return getType(payload) === 'Error';\r\n}\r\n\r\n
  /**\r\n * Returns whether the payload is literally the value `NaN` (it's `NaN` and also a `number`)\r\n * \r\n * @param {*}
  payload\r\n * @returns {payload is NaN}\r\n * \r\n\r\nfunction isNaN(payload) {\r\n  return payload === NaN;\r\n}
  
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payload\r\n * @returns {payload is typeof NaN}\r\n *^\r\nfunction isNaNValue(payload) {\r\n  return
getType(payload)
=== 'Number' && isNaN(payload);\r\n}\r\n/**\r\n * Returns whether the payload is a primitive type (eg. Boolean |
Null | Undefined | Number | String | Symbol)\r\n * @param {*} payload\r\n * @returns {(payload is boolean |
null | undefined | number | string | symbol)}\r\n *^\r\nfunction isPrimitive(payload) {\r\n  return
(isBoolean(payload) ||\r\n  isNaN(payload) ||\r\n  isUndefined(payload) ||\r\n  isNumber(payload) ||\r\n
isString(payload) ||\r\n  isSymbol(payload));\r\n}\r\n/**\r\n * Returns true whether the payload is null or
undefined\r\n * @param {*} payload\r\n * @returns {(payload is null | undefined)}\r\n *^\r\nfunction
isNullOrUndefined(payload) {\r\n  return isNaN(payload) || isUndefined(payload);\r\n}\r\n/**\r\n * Does a generic
check to check that the given payload is of a given type.\r\n * In cases like Number, it will return true for NaN as
NaN is a Number (thanks javascript!);\r\n * It will, however, differentiate
between object and null\r\n * @template T\r\n * @param {*} payload\r\n * @param {T} type\r\n * @throws
{TypeError} Will throw type error if type is an invalid type\r\n * @returns {payload is T}\r\n *^\r\nfunction
isType(payload, type) {\r\n  if (!(type instanceof Function)) {\r\n    throw new TypeError('Type must be a
function');\r\n  }\r\n  if (!Object.prototype.hasOwnProperty.call(type, 'prototype')) {\r\n    throw new
TypeError('Type is not a class');\r\n  }\r\n  // Classes usually have names (as functions usually have names)\r\n
var name = type.name;\r\n  return getType(payload) === name || Boolean(payload && payload.constructor ===
type);\r\n}\n\nexport { getType, isAnyObject, isArray, isBlob, isBoolean, isDate, isEmptyArray, isEmptyObject,
isEmptyString, isError, isFile, isFullArray, isFullString, isFunction, isMap, isNaNValue, isNull, isNullOrUndefined,
isNumber, isObject, isObjectLike, isPlainObject, isPrimitive, isPromise, isRegExp, isSet, isString,
isSymbol, isType, isUndefined, isWeakMap, isWeakSet };", "import { isArray, isPlainObject } from 'is-
what';\n\n/*
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License.\r\n*****
*/\r\n\r\nfunction __spreadArrays()
{\r\n  for (var s = 0, i = 0, il = arguments.length; i < il; i++) s += arguments[i].length;\r\n  for (var r = Array(s), k
= 0, i = 0; i < il; i++)\r\n    for (var a = arguments[i], j = 0, jl = a.length; j < jl; j++, k++)\r\n      r[k] = a[j];\r\n
return r;\r\n}\n\nfunction assignProp(carry, key, newVal, originalObject, includeNonenumerable) {\r\n  var
propType = {}.propertyIsEnumerable.call(originalObject, key)\r\n    ? 'enumerable'\r\n    : 'nonenumerable';\r\n  if (propType === 'enumerable')\r\n    carry[key] = newVal;\r\n  if (includeNonenumerable && propType ===
'nonenumerable') {\r\n    Object.defineProperty(carry, key, {\r\n      value: newVal,\r\n      enumerable:
false,\r\n      writable: true,\r\n      configurable: true,\r\n    });\r\n  }\r\n}\r\n}\r\n/**\r\n * Copy (clone) an
object and all its props recursively to get rid of any prop referenced of the original object. Arrays are also cloned,
however objects
inside arrays are still linked.\r\n * @export\r\n * @template T\r\n * @param {T} target Target can be
anything\r\n * @param {Options} [options={}] Options can be `props` or `nonenumerable`\r\n * @returns {T} the
target with replaced values\r\n * @export\r\n *^\r\nfunction copy(target, options) {\r\n  if (options === void 0) {
options = {};} \r\n  if (isArray(target))\r\n    return target.map(function (i) { return copy(i, options); });\r\n  if
(!isPlainObject(target))\r\n    return target;\r\n  var props = Object.getOwnPropertyNames(target);\r\n  var
symbols = Object.getOwnPropertySymbols(target);\r\n  return __spreadArrays(props, symbols).reduce(function
(carry, key) {\r\n    if (isArray(options.props) && !options.props.includes(key)) {\r\n      return carry;\r\n

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}\r\n    var val = target[key];\r\n    var newVal = copy(val, options);\r\n    assignProp(carry, key, newVal,
target, options.nonenumerable);\r\n    return carry;\r\n
}, {});\r\n}\n\nexport { copy };n"/ * jshint proto: true */\nimport * as Constants from './constants';\nimport {
copy } from 'copy-anything';\n\nexport function getLocation(index, inputStream) {\n  let n = index + 1;\n  let line
= null;\n  let column = -1;\n  while (--n >= 0 && inputStream.charAt(n) !== '\\n') {\n    column++;\n  }\n\n  if (typeof index === 'number') {\n    line = (inputStream.slice(0, index).match(/\\n/g) || "").length;\n  }\n\n  return
{\n    line,\n    column\n  };\n}\n\nexport function copyArray(arr) {\n  let i;\n  const length = arr.length;\n  const copy = new Array(length);\n  for (i = 0; i < length; i++) {\n    copy[i] = arr[i];\n  }\n  return
copy;\n}\n\nexport function clone(obj) {\n  const cloned = {};\n  for (const prop in obj) {\n    if
(obj.hasOwnProperty(prop)) {\n      cloned[prop] = obj[prop];\n    }\n  }\n  return cloned;\n}\n\nexport
function defaults(obj1, obj2) {\n
  let newObj = obj2 || {};\n  if (!obj2._defaults) {\n    newObj = {};\n    const defaults = copy(obj1);\n    newObj._defaults = defaults;\n    const cloned = obj2 ? copy(obj2) : {};\n    Object.assign(newObj, defaults,
cloned);\n  }\n  return newObj;\n}\n\nexport function copyOptions(obj1, obj2) {\n  if (obj2 && obj2._defaults)
{\n    return obj2;\n  }\n  const opts = defaults(obj1, obj2);\n  if (opts.strictMath) {\n    opts.math =
Constants.Math.PARENS;\n  }\n  // Back compat with changed relativeUrls option\n  if (opts.relativeUrls) {\n
opts.rewriteUrls = Constants.RewriteUrls.ALL;\n  }\n  if (typeof opts.math === 'string') {\n    switch
(opts.math.toLowerCase()) {\n      case 'always':\n        opts.math = Constants.Math.ALWAYS;\n      break;\n      case 'parens-division':\n        opts.math = Constants.Math.PARENS_DIVISION;\n      break;\n      case 'strict':\n
        case 'parens':\n          opts.math = Constants.Math.PARENS;\n          break;\n      default:\n
        opts.math = Constants.Math.PARENS;\n    }\n  }\n  if (typeof opts.rewriteUrls === 'string') {\n    switch
(opts.rewriteUrls.toLowerCase()) {\n      case 'off':\n        opts.rewriteUrls = Constants.RewriteUrls.OFF;\n      break;\n      case 'local':\n        opts.rewriteUrls = Constants.RewriteUrls.LOCAL;\n      break;\n      case 'all':\n        opts.rewriteUrls = Constants.RewriteUrls.ALL;\n      break;\n    }\n  }\n  return opts;\n}\n\nexport function merge(obj1, obj2) {\n  for (const prop in obj2) {\n    if
(obj2.hasOwnProperty(prop)) {\n      obj1[prop] = obj2[prop];\n    }\n  }\n  return obj1;\n}\n\nexport
function flattenArray(arr, result = []) {\n  for (let i = 0, length = arr.length; i < length; i++) {\n    const value =
arr[i];\n
    if (Array.isArray(value)) {\n      flattenArray(value, result);\n    } else {\n      if (value !== undefined)
{\n        result.push(value);\n      }\n    }\n  }\n  return result;\n}"/ * import * as utils from
'./utils';\n\nconst anonymousFunc = /(<anonymous>|Function):(\\d+):(\\d+)/;\n\n/**\n * This is a centralized class of
any error that could be thrown internally (mostly by the parser).\n * Besides standard .message it keeps some
additional data like a path to the file where the error\n * occurred along with line and column numbers.\n * \n *
@class\n * @extends Error\n * @type {module.LessError}\n * \n * @prop {string} type\n * @prop {string}
filename\n * @prop {number} index\n * @prop {number} line\n * @prop {number} column\n * @prop {number}
callLine\n * @prop {number} callExtract\n * @prop {string[]} extract\n * \n * @param {Object} e - An
error object to wrap around or just a descriptive object\n * @param {Object} fileContentMap
- An object with file contents in 'contents' property (like importManager) @todo - move to fileManager?\n *
@param {string} [currentFilename]\n */\n\nconst LessError = function(e, fileContentMap, currentFilename) {\n
  Error.call(this);\n  const filename = e.filename || currentFilename;\n  this.message = e.message;\n  this.stack
= e.stack;\n  if (fileContentMap && filename) {\n    const input = fileContentMap.contents[filename];\n    const loc =
utils.getLocation(e.index, input);\n    var line = loc.line;\n    const col = loc.column;\n    const
callLine = e.call && utils.getLocation(e.call, input).line;\n    const lines = input ? input.split('\\n') : "";\n
this.type = e.type || 'Syntax';\n    this.filename = filename;\n    this.index = e.index;\n    this.line =
typeof line === 'number' ? line + 1 : null;\n    this.column = col;\n    if (!this.line && this.stack) {\n      const found =
this.stack.match(anonymousFunc);\n

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/**\n      * We have to figure out how this environment stringifies anonymous functions\n      * so
we can correctly map plugin errors.\n      * \n      * Note, in Node 8, the output of anonymous funcs varied
based on parameters\n      * being present or not, so we inject dummy params.\n      * \n      const func =
new Function('a', 'throw new Error()');\n      let lineAdjust = 0;\n      try {\n      func();\n      } catch
(e) {\n      const match = e.stack.match(anonymousFunc);\n      var line = parseInt(match[2]);\n
lineAdjust = 1 - line;\n      }\n      if (found) {\n      if (found[2]) {\n      this.line =
parseInt(found[2]) + lineAdjust;\n      }\n      if (found[3]) {\n      this.column =
parseInt(found[3]);\n      }\n      }\n      this.callLine
= callLine + 1;\n      this.callExtract = lines[callLine];\n\n      this.extract = [\n      lines[this.line - 2],\n
lines[this.line - 1],\n      lines[this.line]\n      ];\n      }\n\n      if (typeof Object.create === 'undefined') {\n
const F = function () {};\n      F.prototype = Error.prototype;\n      LessError.prototype = new F();\n      } else {\n
LessError.prototype = Object.create(Error.prototype);\n      }\n\n      LessError.prototype.constructor = LessError;\n\n      /**\n      *
An overridden version of the default Object.prototype.toString\n      * which uses additional information to create a
helpful message.\n      * \n      * @param {Object} options\n      * @returns {string}\n      */\n      LessError.prototype.toString =
function(options) {\n      options = options || {};\n\n      let message = '';\n      const extract = this.extract || [];\n      let error
= [];\n      let stylize = function (str) { return str; }; \n      if (options.stylize) {\n      const type = typeof
options.stylize;\n      if (type
!== 'function') {\n      throw Error(`options.stylize should be a function, got a ${type}`);\n      }\n      stylize =
options.stylize;\n      }\n\n      if (this.line !== null) {\n      if (typeof extract[0] === 'string') {\n
error.push(stylize(`${this.line - 1} ${extract[0]}`, 'grey'));\n      }\n\n      if (typeof extract[1] === 'string') {\n
let errorTxt = `${this.line}`;\n      if (extract[1]) {\n      errorTxt += extract[1].slice(0, this.column) +\n
stylize(stylize(stylize(extract[1].substr(this.column, 1), 'bold') +\n      extract[1].slice(this.column
+ 1, 'red'), 'inverse');\n      }\n      error.push(errorTxt);\n      }\n\n      if (typeof extract[2] === 'string') {\n
error.push(stylize(`${this.line + 1} ${extract[2]}`, 'grey'));\n      }\n      error = `${error.join('\n') + stylize('',
'reset')}\n`;\n      }\n\n      message += stylize(`${this.type}Error:
${this.message}`, 'red');\n      if (this.filename) {\n      message += stylize(' in ', 'red') + this.filename;\n      }\n      if
(this.line) {\n      message += stylize(` on line ${this.line}, column ${this.column + 1}:`, 'grey');\n      }\n\n      message +=
`\n\n${error}`;\n\n      if (this.callLine) {\n      message += ` ${stylize('from ', 'red')} + (this.filename ||
'')\n`;\n      message += ` ${stylize(this.callLine, 'grey')} ${this.callExtract}\n`;\n      }\n\n      return
message;\n      }\n\n      export default LessError;";\n      import Node from './node';\n      import Element from './element';\n      import
LessError from './less-error';\n\n      const Selector = function(elements, extendList, condition, index, currentFileInfo,
visibilityInfo) {\n      this.extendList = extendList;\n      this.condition = condition;\n      this.evaldCondition =
!condition;\n      this._index = index;\n      this._fileInfo = currentFileInfo;\n      this.elements =
this.getElements(elements);\n      this.mixinElements_ = undefined;\n      this.copyVisibilityInfo(visibilityInfo);\n\n      this.setParent(this.elements, this);\n      }\n\n      Selector.prototype = Object.assign(new Node(), {\n      type:
'Selector',\n\n      accept(visitor) {\n      if (this.elements) {\n      this.elements =
visitor.visitArray(this.elements);\n      }\n      if (this.extendList) {\n      this.extendList =
visitor.visitArray(this.extendList);\n      }\n      if (this.condition) {\n      this.condition =
visitor.visit(this.condition);\n      }\n      },\n\n      createDerived(elements, extendList, evaldCondition) {\n      elements = this.getElements(elements);\n      const newSelector = new Selector(elements, extendList ||
this.extendList, null, this.getIndex(), this.fileInfo(), this.visibilityInfo());\n      newSelector.evaldCondition
= (evaldCondition != null) ? evaldCondition : this.evaldCondition;\n      newSelector.mediaEmpty =
this.mediaEmpty;\n      return newSelector;\n      },\n\n      getElements(els) {\n      if
(!els) {\n      return [new Element('&', false, this._index, this._fileInfo)];\n      }\n      if (typeof els ===
'string') {\n      this.parse.parseNode(\n      els, \n      ['selector'],\n      this._index, \n
this._fileInfo, \n      function(err, result) {\n      if (err) {\n      throw new LessError({\n
index: err.index,\n      message: err.message\n      }, this.parse.imports,\n
this._fileInfo.filename);\n      }\n      els = result[0].elements;\n      });\n      }\n      return

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els;\n },\n\n createEmptySelectors() {\n    const el = new Element('', '&', false, this._index, this._fileInfo), sels
= [new Selector([el], null, null, this._index, this._fileInfo)];\n    sels[0].mediaEmpty = true;\n    return sels;\n
},\n\n match(other) {\n    const elements
= this.elements;\n    const len = elements.length;\n    let olen;\n    let i;\n\n    other =
other.mixinElements();\n    olen = other.length;\n    if (olen === 0 || len < olen) {\n        return 0;\n    } else
{\n        for (i = 0; i < olen; i++) {\n            if (elements[i].value !== other[i]) {\n                return 0;\n
            }\n        }\n\n        return olen; // return number of matched elements\n    },\n\n    mixinElements() {\n
if (this.mixinElements_) {\n        return this.mixinElements_;\n    }\n\n    let elements = this.elements.map(
function(v) {\n        return v.combinator.value + (v.value.value || v.value);\n    }).join('').match(/[\,&#\|*\|\.\\w-
][(\[\\w-])(\[\|\\\.\)]*/g);\n\n    if (elements) {\n        if (elements[0] === '&') {\n            elements.shift();\n
        }\n    } else {\n        elements = [];\n    }\n\n    return (this.mixinElements_
= elements);\n    },\n\n    isJustParentSelector() {\n        return !this.mediaEmpty &&\n            this.elements.length
=== 1 &&\n                this.elements[0].value === '&' &&\n                    (this.elements[0].combinator.value === '' ||
this.elements[0].combinator.value === '');\n    },\n\n    eval(context) {\n        const evaldCondition = this.condition
&& this.condition.eval(context);\n        let elements = this.elements;\n        let extendList = this.extendList;\n\n        elements = elements && elements.map(function (e) { return e.eval(context); });\n        extendList = extendList &&
extendList.map(function(extend) { return extend.eval(context); });\n\n        return this.createDerived(elements,
extendList, evaldCondition);\n    },\n\n    genCSS(context, output) {\n        let i, element;\n        if (!!context ||
!context.firstSelector) && this.elements[0].combinator.value === '' {\n            output.add(' ', this.fileInfo(),
this.getIndex());\n        }\n\n        for (i = 0; i < this.elements.length; i++) {\n            element = this.elements[i];\n            element.genCSS(context,
output);\n        }\n    },\n\n    getIsOutput() {\n        return this.evaldCondition;\n    });\n\nexport default
Selector;\n", "import Node from './node';\n\nconst Value = function(value) {\n    if (!value) {\n        throw new
Error('Value requires an array argument');\n    }\n    if (!Array.isArray(value)) {\n        this.value = [ value ];\n    }\n
else {\n        this.value = value;\n    }\n\n    Value.prototype = Object.assign(new Node(), {\n        type: 'Value',\n\n        accept(visitor) {\n            if (this.value) {\n                this.value = visitor.visitArray(this.value);\n            }\n        },\n\n        eval(context) {\n            if (this.value.length === 1) {\n                return this.value[0].eval(context);\n            } else {\n
return new Value(this.value.map(function (v) {\n                return v.eval(context);\n            }));\n        }\n    },\n\n    genCSS(context, output) {\n        let i;\n        for (i = 0; i < this.value.length; i++) {\n
this.value[i].genCSS(context, output);\n            if (i + 1 < this.value.length) {\n                output.add((context &&
context.compress) ? ' : ' : ',');\n            }\n        }\n    });\n\nexport default Value;\n", "import Node from
 './node';\n\nconst Keyword = function(value) {\n    this.value = value;\n};\n\nKeyword.prototype =
Object.assign(new Node(), {\n    type: 'Keyword',\n\n    genCSS(context, output) {\n        if (this.value === '%') {\n
throw { type: 'Syntax', message: 'Invalid % without number' }; }\n        output.add(this.value);\n    }\n});\n\nKeyword.True = new Keyword('true');\nKeyword.False = new Keyword('false');\n\nexport default
Keyword;\n", "import Node from './node';\n\nconst Anonymous = function(value, index, currentFileInfo, mapLines,
rulesetLike, visibilityInfo) {\n    this.value = value;\n    this._index = index;\n    this._fileInfo = currentFileInfo;\n
    this.mapLines = mapLines;\n    this.rulesetLike = (typeof rulesetLike === 'undefined') ? false : rulesetLike;\n\n    this.allowRoot = true;\n    this.copyVisibilityInfo(visibilityInfo);\n}\n\nAnonymous.prototype = Object.assign(new
Node(), {\n    type: 'Anonymous',\n\n    eval() {\n        return new Anonymous(this.value, this._index, this._fileInfo,
this.mapLines, this.rulesetLike, this.visibilityInfo());\n    },\n\n    compare(other) {\n        return other.toCSS &&
this.toCSS() === other.toCSS() ? 0 : undefined;\n    },\n\n    isRulesetLike() {\n        return this.rulesetLike;\n    },\n\n    genCSS(context, output) {\n        this.nodeVisible = Boolean(this.value);\n        if (this.nodeVisible) {\n
output.add(this.value, this._fileInfo, this._index, this.mapLines);\n        }\n    })\n\nexport default
Anonymous;\n", "import Node from './node';\n\nimport Value from './value';\n\nimport Keyword from
 './keyword';\n\nimport Anonymous from './anonymous';\n\nimport * as Constants
from './constants';\n\nconst MATH = Constants.Math;\n\nfunction evalName(context, name) {\n    let value = '';\n
    let i;\n    const n = name.length;\n    const output = { add: function (s) { value += s; };\n    for (i = 0; i < n; i++) {\n

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    name[i].eval(context).genCSS(context, output);\n    }\n    return value;\n}\n\nconst Declaration = function(name,\nvalue, important, merge, index, currentFileInfo, inline, variable) {\n  this.name = name;\n  this.value = (value\ninstanceof Node) ? value : new Value([value ? new Anonymous(value) : null]);\n  this.important = important ? ` \n  ${important.trim()} ` : ` `;\n  this.merge = merge;\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n  this.inline = inline || false;\n  this.variable = (variable !== undefined) ? variable\n    : (name.charAt(0) === '@');\n  this.allowRoot = true;\n  this.setParent(this.value,\nthis);\n}\n\nDeclaration.prototype = Object.assign(new Node(), {\n  type: 'Declaration',\n\n  genCSS(context, output) {\n    output.add(this.name + (context.compress ? ' ': ' '), this.fileInfo(),\nthis.getIndex());\n    try {\n      this.value.genCSS(context, output);\n    } catch (e) {\n      e.index\n= this._index;\n      e.filename = this._fileInfo.filename;\n      throw e;\n    }\n    output.add(this.important + ((this.inline || (context.lastRule && context.compress)) ? ' ': ' '), this._fileInfo,\nthis._index);\n  },\n\n  eval(context) {\n    let mathBypass = false, prevMath, name = this.name, evaldValue,\nvariable = this.variable;\n    if (typeof name !== 'string') {\n      // expand 'primitive' name directly to get\n      // things faster (~10% for benchmark.less);\n      name = (name.length === 1) && (name[0] instanceof\nKeyword) ?\n        name[0].value : evalName(context, name);\n      variable = false; // never treat expanded\ninterpolation as new variable name\n\n      }\n\n      // @todo remove when parens-division is default\n      if (name === 'font' && context.math ===\nMATH.ALWAYS) {\n        mathBypass = true;\n        prevMath = context.math;\n        context.math =\nMATH.PARENS_DIVISION;\n      }\n      try {\n        context.importantScope.push({});\n        evaldValue =\nthis.value.eval(context);\n        if (!this.variable && evaldValue.type === 'DetachedRuleset') {\n          throw\n{ message: 'Rulesets cannot be evaluated on a property.',\n          index: this.getIndex(), filename:\nthis.fileInfo().filename };}\n        let important = this.important;\n        const importantResult =\ncontext.importantScope.pop();\n        if (!important && importantResult.important) {\n          important =\nimportantResult.important;\n        }\n        return new Declaration(name,\n          evaldValue,\nimportant,\n          this.merge,\n          this.getIndex(), this.fileInfo(), this.inline,\n            variable);\n      } catch (e) {\n        if\n(typeof e.index !== 'number') {\n          e.index = this.getIndex();\n          e.filename =\nthis.fileInfo().filename;\n          throw e;\n        }\n        finally {\n          if (mathBypass) {\n            context.math = prevMath;\n          }\n        }\n      },\n\n      makeImportant() {\n        return new\nDeclaration(this.name,\n          this.value,\n          '!important',\n          this.merge,\n          this.getIndex(),\nthis.fileInfo(), this.inline);\n      }\n    });\n\n    export default Declaration;";\n  function asComment(ctx) {\n    return `/* line\n${ctx.debugInfo.lineNumber}, ${ctx.debugInfo.fileName} *\n`;\n  }\n\n  function asMediaQuery(ctx) {\n    let\nfilenameWithProtocol = ctx.debugInfo.fileName;\n    if (!/^([a-z]+:\\|\\|/i.test(filenameWithProtocol)) {\n      filenameWithProtocol = `file://${filenameWithProtocol}`;\n    }\n\n    return `@media -sass-debug-info{filename{font-family:${filenameWithProtocol.replace(/[:\\|\\|\\|\\|\\|/g,\nfunction (a) {\n    if (a === '\\|') {\n      a = '\\|';\n    }\n    return `\\\\\\\\\\\\\\$${a}`;\n  }}}line{font-family:\\|\\|\\|\\|00003${ctx.debugInfo.lineNumber}} \\|\\|\\|`;\n  }\n\n  function debugInfo(context, ctx, lineSeparator) {\n    let\nresult = ` `;\n    if (context.dumpLineNumbers && !context.compress) {\n      switch (context.dumpLineNumbers) {\n        case 'comments':\n          result = asComment(ctx);\n          break;\n        case 'mediaquery':\n          result = asMediaQuery(ctx);\n          break;\n        case 'all':\n          result = asComment(ctx) +\n(lineSeparator || ` `) + asMediaQuery(ctx);\n          break;\n      }\n    }\n    return result;\n  }\n\n  export default\ndebugInfo;\n}\n\n", "import Node from './node';\nimport getDebugInfo from './debug-info';\n\nconst Comment =\nfunction(value,\nisLineComment, index, currentFileInfo) {\n  this.value = value;\n  this.isLineComment = isLineComment;\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n  this.allowRoot = true;\n}\n\nComment.prototype =\nObject.assign(new Node(), {\n  type: 'Comment',\n\n  genCSS(context, output) {\n    if (this.debugInfo) {\n      output.add(getDebugInfo(context, this), this.fileInfo(), this.getIndex());\n    }\n    output.add(this.value);\n  },\n\n  isSilent(context) {\n    const isCompressed = context.compress && this.value[2] !== '!';\n    return

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this.isLineComment || isCompressed;\n  }\n});\n\nexport default Comment;\n", "const contexts = {};\n\nexport default contexts;\n\nimport * as Constants from './constants';\n\nconst copyFromOriginal = function copyFromOriginal(original, destination, propertiesToCopy) {\n  if (!original) { return; }\n\n  for (let i = 0; i < propertiesToCopy.length; i++) {\n    if (original.hasOwnProperty(propertiesToCopy[i])) {\n      destination[propertiesToCopy[i]] = original[propertiesToCopy[i]];\n    }\n  }\n};\n\n/*\nparse is used whilst parsing\n*/\n\nconst parseCopyProperties = [\n  // options\n  'paths', // option - unmodified - paths to search for imports\n  'rewriteUrls', // option - whether to adjust URL's to be relative\n  'rootpath', // option - rootpath to append to URL's\n  'strictImports', // option -\n  'insecure', // option - whether to allow imports from insecure ssl hosts\n  'dumpLineNumbers', // option - whether to dump line numbers\n  'compress', // option - whether to compress\n  'syncImport', // option - whether to import synchronously\n  'chunkInput', // option - whether to chunk input. more performant but causes parse issues.\n  'mime', // browser only - mime type for sheet import\n  'useFileCache', // browser only - whether to use the per file session cache\n  // context\n  'processImports', // option & context - whether to process imports. if false then imports will not be imported.\n  // Used by the import manager to stop multiple import visitors being created.\n  'pluginManager' // Used as the plugin manager for the session\n];\n\ncontexts.Parse = function(options) {\n  copyFromOriginal(options, this, parseCopyProperties);\n\n  if (typeof this.paths === 'string') { this.paths = [this.paths]; }\n\n  const evalCopyProperties = [\n    'paths', // additional include paths\n    'compress', // whether to compress\n    'math', // whether math has to be within parenthesis\n    'strictUnits', // whether units need to evaluate correctly\n    'sourceMap', // whether to output a source map\n    'importMultiple', // whether we are currently importing multiple copies\n    'urlArgs', // whether to add args into url tokens\n    'javascriptEnabled', // option - whether\n\n    Inline JavaScript is enabled. if undefined, defaults to false\n    'pluginManager', // Used as the plugin manager for the session\n    'importantScope', // used to bubble up !important statements\n    'rewriteUrls' // option - whether to adjust URL's to be relative\n];\n\ncontexts.Eval = function(options, frames) {\n  copyFromOriginal(options, this, evalCopyProperties);\n\n  if (typeof this.paths === 'string') { this.paths = [this.paths]; }\n\n  this.frames = frames || [];\n  this.importantScope = this.importantScope || [];\n};\n\ncontexts.Eval.prototype.enterCalc = function () {\n  if (!this.calcStack) { this.calcStack = [];\n  }\n  this.calcStack.push(true);\n  this.inCalc = true;\n};\n\ncontexts.Eval.prototype.exitCalc = function () {\n  this.calcStack.pop();\n  if (!this.calcStack.length) { this.inCalc = false;\n  }\n};\n\ncontexts.Eval.prototype.inParenthesis = function () {\n  if (!this.parensStack) { this.parensStack = [];\n  }\n  this.parensStack.push(true);\n};\n\ncontexts.Eval.prototype.outOfParenthesis = function () {\n  this.parensStack.pop();\n};\n\ncontexts.Eval.prototype.inCalc = false;\n\ncontexts.Eval.prototype.mathOn = true;\n\ncontexts.Eval.prototype.isMathOn = function (op) {\n  if (!this.mathOn) { return false;\n  }\n  if (op === '/' && this.math !== Constants.Math.ALWAYS && (!this.parensStack || !this.parensStack.length)) {\n    return false;\n  }\n  if (this.math > Constants.Math.PARENS_DIVISION) {\n    return this.parensStack && this.parensStack.length;\n  }\n  return true;\n};\n\ncontexts.Eval.prototype.pathRequiresRewrite = function (path) {\n  const isRelative = this.rewriteUrls === Constants.RewriteUrls.LOCAL ? isPathLocalRelative : isPathRelative;\n  return isRelative(path);\n};\n\ncontexts.Eval.prototype.rewritePath = function (path, rootpath) {\n  let newPath;\n\n  rootpath = rootpath || '';\n  newPath = this.normalizePath(rootpath + path);\n\n  // If a path was explicit relative and the rootpath was not an absolute path\n  // we must ensure that the new path is also explicit relative.\n  if (isPathLocalRelative(path) && !isPathRelative(rootpath) && !isPathLocalRelative(newPath) === false) {\n    newPath = `.${newPath}`;\n  }\n\n  return newPath;\n};\n\ncontexts.Eval.prototype.normalizePath = function (path) {\n  const segments = path.split('/').reverse();\n  let segment;\n\n  path = [];\n  while (segments.length !== 0) {\n    segment = segments.pop();\n    switch (segment) {\n      case '!': break;\n      case '..': if ((path.length === 0) || (path[path.length - 1] === '..')) {\n        path.push(segment);\n      } else {\n        path.pop();\n      }\n      break;\n      default: path.push(segment);\n    }\n  }\n  break;\n}

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    }\n }\n\n return path.join('/');\n};\n\nfunction isPathRelative(path) {\n return !/^(?:[a-z-
]+:|\\|/|#/i.test(path);\n}\n\nfunction isPathLocalRelative(path) {\n return path.charAt(0) === '.';\n}\n\n// todo - do
the same for the toCSS ?\n", "function makeRegistry( base ) {\n return {\n _data: {},\n add:
function(name, func) {\n // precautionary case conversion, as later querying of\n // the registry by
function-caller uses lower case as well.\n name = name.toLowerCase();\n if
(this._data.hasOwnProperty(name)) {\n // TODO warn\n }\n this._data[name] = func;\n
},\n addMultiple: function(functions) {\n Object.keys(functions).forEach(\n name => {\n
this.add(name, functions[name]);\n });\n },\n get: function(name) {\n return
this._data[name] || ( base && base.get( name ));\n
},\n getLocalFunctions: function() {\n return this._data;\n },\n inherit: function() {\n
return makeRegistry( this );\n },\n create: function(base) {\n return makeRegistry(base);\n
}\n};\n}\n\nexport default makeRegistry( null );", "import Keyword from './tree/keyword';\n\nconst defaultFunc = {\n
eval: function () {\n const v = this.value_;\n const e = this.error_;\n if (e) {\n throw e;\n
}\n if (v != null) {\n return v ? Keyword.True : Keyword.False;\n }\n },\n value: function (v) {\n
this.value_ = v;\n },\n error: function (e) {\n this.error_ = e;\n },\n reset: function () {\n this.value_ =
this.error_ = null;\n }\n};\n\nexport default defaultFunc;\n", "import Node from './node';\nimport Declaration from
 './declaration';\nimport Keyword from './keyword';\nimport Comment from './comment';\nimport Paren
from './paren';\nimport Selector from './selector';\nimport Element from './element';\nimport Anonymous from
 './anonymous';\nimport contexts from './contexts';\nimport globalFunctionRegistry from './functions/function-
registry';\nimport defaultFunc from './functions/default';\nimport getDebugInfo from './debug-info';\nimport * as
utils from './utils';\n\nconst Ruleset = function(selectors, rules, strictImports, visibilityInfo) {\n this.selectors =
selectors;\n this.rules = rules;\n this._lookups = {};\n this._variables = null;\n this._properties = null;\n
this.strictImports = strictImports;\n this.copyVisibilityInfo(visibilityInfo);\n this.allowRoot = true;\n\n
this.setParent(this.selectors, this);\n this.setParent(this.rules, this);\n}\n\nRuleset.prototype = Object.assign(new
Node(), {\n type: 'Ruleset',\n isRuleset: true,\n\n isRulesetLike() { return true; },\n\n accept(visitor) {\n
if (this.paths) {\n this.paths = visitor.visitArray(this.paths,
true);\n } else if (this.selectors) {\n this.selectors = visitor.visitArray(this.selectors);\n }\n if
(this.rules && this.rules.length) {\n this.rules = visitor.visitArray(this.rules);\n }\n },\n\n
eval(context) {\n const that = this;\n let selectors;\n let selCnt;\n let selector;\n let i;\n let
hasVariable;\n let hasOnePassingSelector = false;\n if (this.selectors && (selCnt = this.selectors.length))
{\n selectors = new Array(selCnt);\n defaultFunc.error({\n type: 'Syntax',\n
message: 'it is currently only allowed in parametric mixin guards,'n });\n\n for (i = 0; i < selCnt; i++)
{\n selector = this.selectors[i].eval(context);\n for (var j = 0; j < selector.elements.length; j++) {\n
if (selector.elements[j].isVariable) {\n
hasVariable = true;\n break;\n }\n }\n selectors[i] =
selector;\n if (selector.evaldCondition) {\n hasOnePassingSelector = true;\n }\n
}\n\n if (hasVariable) {\n const toParseSelectors = new Array(selCnt);\n for (i = 0; i <
selCnt; i++) {\n selector = selectors[i];\n toParseSelectors[i] = selector.toCSS(context);\n
}\n this.parse.parseNode(\n toParseSelectors.join(','),\n ["selectors"], \n
selectors[0].getIndex(), \n selectors[0].fileInfo(), \n function(err, result) {\n
if (result) {\n selectors = utils.flattenArray(result);\n }\n });\n
}\n\n defaultFunc.reset();\n } else {\n hasOnePassingSelector = true;\n }\n\n let
rules = this.rules ? utils.copyArray(this.rules) : null;\n const ruleset = new Ruleset(selectors, rules,
this.strictImports, this.visibilityInfo());\n let rule;\n let subRule;\n\n ruleset.originalRuleset = this;\n
ruleset.root = this.root;\n ruleset.firstRoot = this.firstRoot;\n ruleset.allowImports = this.allowImports;\n\n
if (this.debugInfo) {\n ruleset.debugInfo = this.debugInfo;\n }\n\n if (!hasOnePassingSelector) {\n
rules.length = 0;\n }\n\n // inherit a function registry from the frames stack when possible;\n //
otherwise from the global registry\n ruleset.functionRegistry = (function (frames) {\n let i = 0;\n

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const n = frames.length;\n      let found;\n      for ( ; i !== n ; ++i ) {\n        found = frames[ i ].functionRegistry;\n        if ( found ) { return found; }\n      }\n      return\n      globalFunctionRegistry;\n    }(context.frames)).inherit();\n    // push the current ruleset to the frames stack\n    const ctxFrames = context.frames;\n    ctxFrames.unshift(ruleset);\n    // current selectors\n    let\n    ctxSelectors = context.selectors;\n    if (!ctxSelectors) {\n      context.selectors = ctxSelectors = [];\n    }\n    ctxSelectors.unshift(this.selectors);\n    // Evaluate imports\n    if (ruleset.root || ruleset.allowImports ||\n    !ruleset.strictImports) {\n      ruleset.evalImports(context);\n    }\n    // Store the frames around mixin\n    definitions,\n    // so they can be evaluated like closures when the time comes.\n    const rsRules =\n    ruleset.rules;\n    for (i = 0; (rule = rsRules[i]); i++) {\n      if (rule.evalFirst) {\n        rsRules[i] =\n        rule.eval(context);\n      }\n    }\n    const mediaBlockCount = (context.mediaBlocks && context.mediaBlocks.length) || 0;\n    // Evaluate mixin calls.\n    for (i = 0; (rule = rsRules[i]); i++) {\n      if (rule.type === 'MixinCall') {\n        /* jshint loopfunc:true */\n        rules = rule.eval(context).filter(function(r) {\n          if ((r instanceof\n          Declaration) && r.variable) {\n            // do not pollute the scope if the variable is\n            // already\n            there. consider returning false here\n            // but we need a way to \"return\" variable from mixins\n            return !(ruleset.variable(r.name));\n          }\n          return true;\n        });\n        rsRules.splice.apply(rsRules, [i, 1].concat(rules));\n        i += rules.length - 1;\n        ruleset.resetCache();\n      } else if (rule.type === 'VariableCall')\n      {\n        /* jshint loopfunc:true */\n        rules = rule.eval(context).rules.filter(function(r) {\n          if\n          ((r instanceof Declaration) && r.variable) {\n            // do not pollute the scope at all\n            return\n            false;\n          }\n          return true;\n        });\n        rsRules.splice.apply(rsRules, [i,\n        1].concat(rules));\n        i += rules.length - 1;\n        ruleset.resetCache();\n      }\n    }\n    // Evaluate everything else\n    for (i = 0; (rule = rsRules[i]); i++) {\n      if (!rule.evalFirst) {\n        rsRules[i] = rule = rule.eval ? rule.eval(context) : rule;\n      }\n    }\n    // Evaluate everything else\n    for (i = 0; (rule = rsRules[i]); i++) {\n      // for rulesets, check if it is a css guard and can be removed\n      if\n      (rule instanceof Ruleset && rule.selectors\n      && rule.selectors.length === 1) {\n        // check if it can be folded in (e.g. & where)\n        if\n        (rule.selectors[0] && rule.selectors[0].isJustParentSelector()) {\n          rsRules.splice(i--, 1);\n        }\n      }\n      for (var j = 0; (subRule = rule.rules[j]); j++) {\n        if (subRule instanceof Node) {\n          subRule.copyVisibilityInfo(rule.visibilityInfo());\n          if (!(subRule instanceof Declaration) ||\n          !subRule.variable) {\n            rsRules.splice(++i, 0, subRule);\n          }\n        }\n      }\n    }\n    // Pop the stack\n    ctxFrames.shift();\n    ctxSelectors.shift();\n    if (context.mediaBlocks) {\n      for (i = mediaBlockCount; i <\n      context.mediaBlocks.length; i++) {\n        context.mediaBlocks[i].bubbleSelectors(selectors);\n      }\n    }\n    return ruleset;\n  },\n  evalImports(context) {\n    const rules = this.rules;\n    let i;\n    let importRules;\n    if (!rules) { return; }\n    for (i = 0; i < rules.length; i++) {\n      if (rules[i].type ===\n      'Import') {\n        importRules = rules[i].eval(context);\n        if (importRules && (importRules.length ||\n        importRules.length === 0)) {\n          rules.splice.apply(rules, [i, 1].concat(importRules));\n          i +=\n          importRules.length - 1;\n        } else {\n          rules.splice(i, 1, importRules);\n        }\n      }\n    }\n    this.resetCache();\n  },\n  makeImportant() {\n    const result = new Ruleset(this.selectors,\n    this.rules.map(function (r) {\n      if (r.makeImportant) {\n        return r.makeImportant();\n      } else {\n        return r;\n      }\n    }), this.strictImports,\n    this.visibilityInfo());\n    return result;\n  },\n  matchArgs(args) {\n    return !args || args.length === 0;\n  },\n  // lets you call a css selector with a guard\n  matchCondition(args, context) {\n    const lastSelector =\n    this.selectors[this.selectors.length - 1];\n    if (!lastSelector.evaldCondition) {\n      return false;\n    }\n    if (lastSelector.condition &&\n    !lastSelector.condition.eval(\n    new contexts.Eval(context,\n    context.frames))) {\n      return false;\n    }\n    return true;\n  },\n  resetCache() {\n    this._rulesets\n    = null;\n    this._variables = null;\n    this._properties = null;\n    this._lookups = {};\n  },\n  variables()

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{\n    if (!this._variables) {\n        this._variables = !this.rules ? {} : this.rules.reduce(function (hash, r) {\n
        if (r instanceof Declaration && r.variable === true) {\n
            hash[r.name] = r;\n        }\n        // when evaluating variables in an import statement, imports
have not been eval'd\n        // so we need to go inside import statements.\n        // guard against root being a
string (in the case of inlined less)\n        if (r.type === 'Import' && r.root && r.root.variables) {\n
const vars = r.root.variables();\n        for (const name in vars) {\n            if
(vars.hasOwnProperty(name)) {\n                hash[name] = r.root.variable(name);\n            }\n
        }\n        }\n        return hash;\n    }, {});\n    }\n    return this._variables;\n },\n\n
properties() {\n    if (!this._properties) {\n        this._properties = !this.rules ? {} : this.rules.reduce(function
(hash, r) {\n        if (r instanceof Declaration && r.variable !== true) {\n
            const name = (r.name.length === 1) && (r.name[0] instanceof Keyword) ?\n                r.name[0].value :
r.name;\n            // Properties don't overwrite as they can merge\n            if (!hash[`${name}`]) {\n
                hash[`${name}`] = [ r ];\n            }\n            else {\n                hash[`${name}`].push(r);\n
            }\n        }\n        }\n        return hash;\n    }, {});\n    }\n    return this._properties;\n },\n\n
variable(name) {\n    const decl = this.variables()[name];\n    if (decl) {\n        return this.parseValue(decl);\n
    }\n },\n\n
property(name) {\n    const decl = this.properties()[name];\n    if (decl) {\n        return
this.parseValue(decl);\n    }\n },\n\n
lastDeclaration() {\n    for (let i = this.rules.length; i > 0; i--) {\n
const decl = this.rules[i - 1];\n        if (decl
instanceof Declaration) {\n            return this.parseValue(decl);\n        }\n    }\n },\n\n
parseValue(toParse) {\n    const self = this;\n    function transformDeclaration(decl) {\n        if (decl.value
instanceof Anonymous && !decl.parsed) {\n            if (typeof decl.value.value === 'string') {\n
this.parse.parseNode(\n                decl.value.value,\n                ['value', 'important'], \n
decl.value.getIndex(), \n                decl.fileInfo(), \n                function(err, result) {\n                    if
(err) {\n                        decl.parsed = true;\n                    }\n                    if (result) {\n
                        decl.value = result[0];\n                        decl.important = result[1] || '';\n                        decl.parsed =
true;\n                    }\n                }\n            );\n        } else {\n            decl.parsed = true;\n        }\n        return decl;\n
    }\n    else {\n        return decl;\n    }\n }\n    if (!Array.isArray(toParse)) {\n        return
transformDeclaration.call(self, toParse);\n    }\n    else {\n        const nodes = [];\n
toParse.forEach(function(n) {\n            nodes.push(transformDeclaration.call(self, n));\n        });\n        return
nodes;\n    }\n },\n\n
rulesets() {\n    if (!this.rules) { return []; }\n    const filtRules = [];\n    const
rules = this.rules;\n    let i;\n    let rule;\n    for (i = 0; (rule = rules[i]); i++) {\n        if (rule.isRuleset) {\n
filtRules.push(rule);\n        }\n    }\n    return filtRules;\n },\n\n
prependRule(rule) {\n    const
rules = this.rules;\n    if (rules) {\n
        rules.unshift(rule);\n    } else {\n        this.rules = [ rule ];\n    }\n    this.setParent(rule, this);\n
},\n\n
find(selector, self, filter) {\n    self = self || this;\n    const rules = [];\n    let match;\n    let
foundMixins;\n    const key = selector.toCSS();\n    if (key in this._lookups) { return this._lookups[key]; }\n\n
this.rulesets().forEach(function (rule) {\n        if (rule !== self) {\n            for (let j = 0; j <
rule.selectors.length; j++) {\n                match = selector.match(rule.selectors[j]);\n                if (match) {\n
                    if (selector.elements.length > match) {\n                        if (!filter || filter(rule)) {\n
foundMixins = rule.find(new Selector(selector.elements.slice(match)), self, filter);\n                            for (let i =
0; i < foundMixins.length; ++i) {\n
                                foundMixins[i].path.push(rule);\n                            }\n                            Array.prototype.push.apply(rules,
foundMixins);\n                        }\n                    } else {\n                        rules.push({ rule, path: [] });\n
                    }\n                }\n                break;\n            }\n        }\n    });\n    this._lookups[key] = rules;\n
return rules;\n },\n\n
genCSS(context, output) {\n    let i;\n    let j;\n    const charsetRuleNodes = [];\n
let ruleNodes = [];\n    let // Line number debugging\n        debugInfo;\n    let rule;\n    let path;\n\n
context.tabLevel = (context.tabLevel || 0);\n    if (!this.root) {\n        context.tabLevel++;\n    }\n\n

```

```

const tabRuleStr = context.compress ? " : Array(context.tabLevel + 1).join(' ');
const tabSetStr = context.compress ? " : Array(context.tabLevel).join(' ');
let sep;
let charsetNodeIndex = 0;
let importNodeIndex = 0;
for (i = 0; (rule = this.rules[i]); i++) {
  if (rule instanceof Comment) {
    if (importNodeIndex === i) {
      importNodeIndex++;
    }
    ruleNodes.push(rule);
  } else if (rule.isCharset && rule.isCharset()) {
    ruleNodes.splice(charsetNodeIndex, 0, rule);
    charsetNodeIndex++;
    importNodeIndex++;
  } else if (rule.type === 'Import') {
    ruleNodes.splice(importNodeIndex, 0, rule);
    importNodeIndex++;
  } else {
    ruleNodes.push(rule);
  }
}
ruleNodes = charsetRuleNodes.concat(ruleNodes);
// If this is the root node, we don't render a selector, or {}
if (!this.root) {
  debugInfo = getDebugInfo(context, this, tabSetStr);
  if (debugInfo) {
    output.add(debugInfo);
    output.add(tabSetStr);
  }
  const paths = this.paths;
  const pathCnt = paths.length;
  let pathSubCnt;
  sep = context.compress ? ' : ' : '\n${tabSetStr}';
  for (i = 0; i < pathCnt; i++) {
    path = paths[i];
    if (!(pathSubCnt = path.length)) {
      continue;
    }
    if (i > 0) {
      output.add(sep);
    }
    context.firstSelector = true;
    path[0].genCSS(context, output);
    context.firstSelector = false;
    for (j = 1; j < pathSubCnt; j++) {
      path[j].genCSS(context, output);
    }
    output.add((context.compress ? '{' : '\n') + tabRuleStr);
    // Compile rules and rulesets
  }
  for (i = 0; (rule = ruleNodes[i]); i++) {
    if (i + 1 === ruleNodes.length) {
      context.lastRule = true;
    }
    const currentLastRule = context.lastRule;
    if (rule.isRulesetLike(rule)) {
      context.lastRule = false;
    }
    if (rule.genCSS) {
      rule.genCSS(context, output);
    } else if (rule.value) {
      output.add(rule.value.toString());
    }
    context.lastRule = currentLastRule;
    if (!context.lastRule && rule.isVisible()) {
      output.add(context.compress ? " : " : "\n${tabRuleStr}");
    } else {
      context.lastRule = false;
    }
    if (!this.root) {
      output.add((context.compress ? '}' : '\n${tabSetStr}'));
      context.tabLevel--;
    }
    if (!output.isEmpty() && !context.compress && this.firstRoot) {
      output.add("\n");
    }
  }
  joinSelectors(paths, context, selectors) {
    for (let s = 0; s < selectors.length; s++) {
      this.joinSelector(paths, context, selectors[s]);
    }
  }
  joinSelector(paths, context, selector) {
    function createParenthesis(elementsToPak, originalElement) {
      let replacementParen, j;
      if (elementsToPak.length === 0) {
        replacementParen = new Paren(elementsToPak[0]);
      } else {
        const insideParent = new Array(elementsToPak.length);
        for (j = 0; j < elementsToPak.length; j++) {
          insideParent[j] = new Element(null, elementsToPak[j], originalElement.isVariable, originalElement._index, originalElement._fileInfo);
        }
        replacementParen = new Paren(new Selector(insideParent));
      }
      return replacementParen;
    }
    function createSelector(containedElement, originalElement) {
      let element, selector;
      element = new Element(null, containedElement, originalElement.isVariable, originalElement._index, originalElement._fileInfo);
      selector = new Selector([element]);
      return selector;
    }
    // joins selector path from `beginningPath` with selector path in `addPath`
    // `replacedElement` contains element that is being replaced by `addPath`
    // returns concatenated path
    function addReplacementIntoPath(beginningPath, addPath, replacedElement, originalSelector) {
      let newSelectorPath, lastSelector, newJoinedSelector;
      // our new selector path
      newSelectorPath = [];
      // construct the joined selector - if & is the first thing this will be empty,
      // if not newJoinedSelector will be the last set of elements in the selector
      if (beginningPath.length > 0) {
        newSelectorPath = utils.copyArray(beginningPath);
        lastSelector = newSelectorPath.pop();
        newJoinedSelector = originalSelector.createDerived(utils.copyArray(lastSelector.elements));
      } else {
        newJoinedSelector = originalSelector.createDerived([]);
      }
      if (addPath.length > 0) {
        //

```

```

/deep/ is a CSS4 selector - (removed, so should deprecate)\n          // that is valid without anything in front of it\n
    // so if the & does not have a combinator that is \"\" or \" \" then\n          // and there is a combinator on
the parent, then grab that.\n          // this also allows + a { & .b { .a & { ... though not sure why you would want
to do that\n          let combinator = replacedElement.combinator;\n          const parentEl =
addPath[0].elements[0];\n
    if (combinator.emptyOrWhitespace && !parentEl.combinator.emptyOrWhitespace) {\n
combinator = parentEl.combinator;\n          }\n          // join the elements so far with the first part of the
parent\n          newJoinedSelector.elements.push(new Element(\n          combinator,\n
parentEl.value,\n          replacedElement.isVariable,\n          replacedElement._index,\n
replacedElement._fileInfo\n          ));\n          newJoinedSelector.elements =
newJoinedSelector.elements.concat(addPath[0].elements.slice(1));\n          }\n          // now add the joined
selector - but only if it is not empty\n          if (newJoinedSelector.elements.length !== 0) {\n
newSelectorPath.push(newJoinedSelector);\n          }\n          // put together the parent selectors after the join
(e.g. the rest of the parent)\n          if (addPath.length
> 1) {\n          let restOfPath = addPath.slice(1);\n          restOfPath = restOfPath.map(function (selector) {\n
return selector.createDerived(selector.elements, []);\n          });\n          newSelectorPath =
newSelectorPath.concat(restOfPath);\n          }\n          return newSelectorPath;\n          }\n          // joins selector
path from `beginningPath` with every selector path in `addPaths` array\n          // `replacedElement` contains element
that is being replaced by `addPath`\n          // returns array with all concatenated paths\n          function
addAllReplacementsIntoPath( beginningPath, addPaths, replacedElement, originalSelector, result) {\n          let j;\n
for (j = 0; j < beginningPath.length; j++) {\n          const newSelectorPath =
addReplacementIntoPath(beginningPath[j], addPaths, replacedElement, originalSelector);\n
result.push(newSelectorPath);\n          }\n          return
result;\n          }\n          function mergeElementsOnToSelectors(elements, selectors) {\n          let i, sel;\n
if (elements.length === 0) {\n          return ;\n          }\n          if (selectors.length === 0) {\n
selectors.push([ new Selector(elements) ]);\n          return;\n          }\n          for (i = 0; (sel = selectors[i]);
i++) {\n          // if the previous thing in sel is a parent this needs to join on to it\n          if (sel.length > 0) {\n
sel[sel.length - 1] = sel[sel.length - 1].createDerived(sel[sel.length - 1].elements.concat(elements));\n
}\n          else {\n          sel.push(new Selector(elements));\n          }\n          }\n          }\n          //
replace all parent selectors inside `inSelector` by content of `context` array\n          // resulting selectors are returned
inside `paths` array\n          // returns true if `inSelector`
contained at least one parent selector\n          function replaceParentSelector(paths, context, inSelector) {\n          //
The paths are [[Selector]]\n          // The first list is a list of comma separated selectors\n          // The inner list is a
list of inheritance separated selectors\n          // e.g.\n          // .a, .b\n          // .c\n          // }\n          // }\n
// == [[.a] [.c]] [[.b] [.c]]\n          //^\n          let i, j, k, currentElements, newSelectors, selectorsMultiplied, sel,
el, hadParentSelector = false, length, lastSelector;\n          function findNestedSelector(element) {\n          let
maybeSelector;\n          if (!(element.value instanceof Paren)) {\n          return null;\n          }\n
maybeSelector = element.value.value;\n          if (!(maybeSelector instanceof Selector)) {\n          return
null;\n          }\n          return maybeSelector;\n
}\n          // the elements from the current selector so far\n          currentElements = [];\n          // the
current list of new selectors to add to the path.\n          // We will build it up. We initiate it with one empty selector
as we \"multiply\" the new selectors\n          // by the parents\n          newSelectors = [\n          []\n          ];\n
for (i = 0; (el = inSelector.elements[i]); i++) {\n          // non parent reference elements just get added\n
if (el.value !== '&') {\n          const nestedSelector = findNestedSelector(el);\n          if
(nestedSelector != null) {\n          // merge the current list of non parent selector elements\n          //
on to the current list of selectors to add\n          mergeElementsOnToSelectors(currentElements,
newSelectors);\n          }\n          const nestedPaths = [];\n

```



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    let replaced;\n                const replacedNewSelectors = [];\n                replaced =
replaceParentSelector(nestedPaths, context, nestedSelector);\n                hadParentSelector = hadParentSelector
// replaced;\n                // the nestedPaths array should have only one member - replaceParentSelector does not
multiply selectors\n                for (k = 0; k < nestedPaths.length; k++) {\n                const
replacementSelector = createSelector(createParenthesis(nestedPaths[k], el), el);\n
addAllReplacementsIntoPath(newSelectors, [replacementSelector], el, inSelector, replacedNewSelectors);\n
    }\n                newSelectors = replacedNewSelectors;\n                currentElements = [];\n        }\n    else {\n        currentElements.push(el);\n    }\n    } else {\n
hadParentSelector
= true;\n        // the new list of selectors to add\n        selectorsMultiplied = [];\n        //
merge the current list of non parent selector elements\n        // on to the current list of selectors to add\n
mergeElementsOnToSelectors(currentElements, newSelectors);\n        // loop through our current
selectors\n        for (j = 0; j < newSelectors.length; j++) {\n        sel = newSelectors[j];\n
// if we don't have any parent paths, the & might be in a mixin so that it can be used\n        // whether
there are parents or not\n        if (context.length === 0) {\n        // the combinator used on el
should now be applied to the next element instead so that\n        // it is not lost\n        if
(sel.length > 0) {\n        sel[0].elements.push(new
Element(el.combinator, ", el.isVariable, el._index, el._fileInfo));\n        }\n
selectorsMultiplied.push(sel);\n        }\n        else {\n        // and the parent
selectors\n        for (k = 0; k < context.length; k++) {\n        // We need to put the current
selectors\n        // then join the last selector's elements on to the parents selectors\n
const newSelectorPath = addReplacementIntoPath(sel, context[k], el, inSelector);\n        // add that to
our new set of selectors\n        selectorsMultiplied.push(newSelectorPath);\n        }\n
    }\n    }\n    // our new selectors has been multiplied, so reset the state\n
newSelectors
= selectorsMultiplied;\n        currentElements = [];\n    }\n    }\n    // if we have any
elements left over (e.g. .a& .b == .b)\n    // add them on to all the current selectors\n
mergeElementsOnToSelectors(currentElements, newSelectors);\n    for (i = 0; i < newSelectors.length; i++)
{\n    length = newSelectors[i].length;\n    if (length > 0) {\n
paths.push(newSelectors[i]);\n        lastSelector = newSelectors[i][length - 1];\n
newSelectors[i][length - 1] = lastSelector.createDerived(lastSelector.elements, inSelector.extendList);\n
}\n    }\n    return hadParentSelector;\n    }\n    function deriveSelector(visibilityInfo, deriveFrom)
{\n    const newSelector = deriveFrom.createDerived(deriveFrom.elements, deriveFrom.extendList,
deriveFrom.evaldCondition);\n        newSelector.copyVisibilityInfo(visibilityInfo);\n
return newSelector;\n    }\n    // joinSelector code follows\n    let i, newPaths,
hadParentSelector;\n    newPaths = [];\n    hadParentSelector = replaceParentSelector(newPaths, context,
selector);\n    if (!hadParentSelector) {\n    if (context.length > 0) {\n        newPaths = [];\n
for (i = 0; i < context.length; i++) {\n        const concatenated = context[i].map(deriveSelector.bind(this,
selector.visibilityInfo()));\n        concatenated.push(selector);\n
newPaths.push(concatenated);\n    }\n    } else {\n        newPaths = [[selector]];\n
}\n    }\n    for (i = 0; i < newPaths.length; i++) {\n    paths.push(newPaths[i]);\n    }\n
}\n}\n\nexport default Ruleset;\n", "import Node from './node';\nimport Selector from './selector';\nimport Ruleset
from './ruleset';\nimport
Anonymous from './anonymous';\n\nconst AtRule = function(\n    name,\n    value,\n    rules,\n    index,\n
currentFileInfo,\n    debugInfo,\n    isRooted,\n    visibilityInfo)\n{\n    let i;\n\n    this.name = name;\n    this.value
= (value instanceof Node) ? value : (value ? new Anonymous(value) : value);\n    if (rules) {\n    if
(Array.isArray(rules)) {\n        this.rules = rules;\n    } else {\n        this.rules = [rules];\n
this.rules[0].selectors = (new Selector([], null, null, index, currentFileInfo)).createEmptySelectors();\n    }\n
}

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for (i = 0; i < this.rules.length; i++) {\n      this.rules[i].allowImports = true;\n    }\n    this.setParent(this.rules, this);\n  }\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n  this.debugInfo =\n  debugInfo;\n  this.isRooted = isRooted || false;\n  this.copyVisibilityInfo(visibilityInfo);\n  this.allowRoot =\n  true;\n}\n\nAtRule.prototype = Object.assign(new\n  Node(), {\n  type: 'AtRule',\n  accept(visitor) {\n    const value = this.value, rules = this.rules;\n    if (rules)\n      this.rules = visitor.visitArray(rules);\n  },\n  if (value) {\n    this.value = visitor.visit(value);\n  },\n  isRulesetLike() {\n    return this.rules || !this.isCharset();\n  },\n  isCharset() {\n    return\n    '@charset' === this.name;\n  },\n  genCSS(context, output) {\n    const value = this.value, rules = this.rules;\n    output.add(this.name, this.fileInfo(), this.getIndex());\n    if (value) {\n      output.add(' ');\n      value.genCSS(context, output);\n    }\n    if (rules) {\n      this.outputRuleset(context, output, rules);\n    }\n  },\n  else {\n    output.add(';');\n  },\n  eval(context) {\n    let mediaPathBackup, mediaBlocksBackup,\n    value = this.value, rules = this.rules;\n    // media stored inside\n    other atrule should not bubble over it\n    // backup media bubbling information\n    mediaPathBackup =\n    context.mediaPath;\n    mediaBlocksBackup = context.mediaBlocks;\n    // deleted media bubbling\n    information\n    context.mediaPath = [];\n    context.mediaBlocks = [];\n    if (value) {\n      value =\n      value.eval(context);\n    }\n    if (rules) {\n      // assuming that there is only one rule at this point - that is\n      how parser constructs the rule\n      rules = [rules[0].eval(context)];\n      rules[0].root = true;\n    }\n    //\n    restore media bubbling information\n    context.mediaPath = mediaPathBackup;\n    context.mediaBlocks =\n    mediaBlocksBackup;\n    return new AtRule(this.name, value, rules,\n      this.getIndex(), this.fileInfo(),\n      this.debugInfo, this.isRooted, this.visibilityInfo());\n  },\n  variable(name) {\n    if (this.rules) {\n      //\n      assuming that there is only\n      one rule at this point - that is how parser constructs the rule\n      return\n      Ruleset.prototype.variable.call(this.rules[0], name);\n    }\n  },\n  find() {\n    if (this.rules) {\n      //\n      assuming that there is only one rule at this point - that is how parser\n      constructs the rule\n      return\n      Ruleset.prototype.find.apply(this.rules[0], arguments);\n    }\n  },\n  rulesets() {\n    if (this.rules) {\n      //\n      assuming that there is only one rule at this point - that is how parser\n      constructs the rule\n      return\n      Ruleset.prototype.rulesets.apply(this.rules[0]);\n    }\n  },\n  outputRuleset(context, output, rules) {\n    const ruleCnt = rules.length;\n    let i;\n    context.tabLevel = (context.tabLevel | 0) + 1;\n    //\n    Compressed\n    if (context.compress) {\n      output.add('{');\n      for (i = 0; i < ruleCnt; i++) {\n        rules[i].genCSS(context, output);\n      }\n      output.add('');\n      context.tabLevel--;\n      return;\n    }\n    // Non-compressed\n    const tabSetStr = `\\n${Array(context.tabLevel).join(' ')}`, tabRuleStr = `${tabSetStr}`;\n    if (!ruleCnt) {\n      output.add(`${tabSetStr}`);\n    } else {\n      output.add(`${tabRuleStr}`);\n      rules[0].genCSS(context, output);\n      for (i = 1; i < ruleCnt; i++) {\n        output.add(tabRuleStr);\n        rules[i].genCSS(context, output);\n      }\n      output.add(`${tabSetStr}`);\n    }\n    context.tabLevel--;\n  }\n});\n\nexport default AtRule;\n", "import Node from './node';\nimport contexts from\n'./contexts';\nimport * as utils from './utils';\n\nconst DetachedRuleset = function(ruleset, frames) {\n  this.ruleset\n  = ruleset;\n  this.frames = frames;\n  this.setParent(this.ruleset, this);\n};\n\nDetachedRuleset.prototype =\n  Object.assign(new Node(),\n  {\n  type: 'DetachedRuleset',\n  evalFirst: true,\n  accept(visitor) {\n    this.ruleset =\n    visitor.visit(this.ruleset);\n  },\n  eval(context) {\n    const frames = this.frames ||\n    utils.copyArray(context.frames);\n    return new DetachedRuleset(this.ruleset, frames);\n  },\n  callEval(context) {\n    return this.ruleset.eval(this.frames ? new contexts.Eval(context,\n    this.frames.concat(context.frames)) : context);\n  }\n});\n\nexport default DetachedRuleset;\n", "import Node from\n'./node';\nimport unitConversions from './data/unit-conversions';\nimport * as utils from './utils';\n\nconst Unit =\n  function(numerator, denominator, backupUnit) {\n    this.numerator = numerator ? utils.copyArray(numerator).sort()\n    : [];\n    this.denominator = denominator ? utils.copyArray(denominator).sort()\n    : [];\n    if (backupUnit) {\n      this.backupUnit = backupUnit;\n    } else if (numerator && numerator.length) {\n      this.backupUnit =\n

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numerator[0];\n  }\n};\n\nUnit.prototype
= Object.assign(new Node(), {\n  type: 'Unit',\n\n  clone() {\n    return new
Unit(utils.copyArray(this.numerator), utils.copyArray(this.denominator), this.backupUnit);\n  },\n\n  genCSS(context, output) {\n    // Dimension checks the unit is singular and throws an error if in strict math
mode.\n    const strictUnits = context && context.strictUnits;\n    if (this.numerator.length === 1) {\n
output.add(this.numerator[0]); // the ideal situation\n    } else if (!strictUnits && this.backupUnit) {\n
output.add(this.backupUnit);\n    } else if (!strictUnits && this.denominator.length) {\n
output.add(this.denominator[0]);\n    }\n  },\n\n  toString() {\n    let i, returnStr = this.numerator.join('*');\n
for (i = 0; i < this.denominator.length; i++) {\n    returnStr += `/${this.denominator[i]}`;\n    }\n
return returnStr;\n  },\n\n  compare(other) {\n    return
this.is(other.toString()) ? 0 : undefined;\n  },\n\n  is(unitString) {\n    return this.toString().toUpperCase() ===
unitString.toUpperCase();\n  },\n\n  isLength() {\n    return
RegExp(/^(px|em|ex|ch|rem|in|cm|mm|pc|pt|ex|vw|vh|vmin|vmax)$/, 'gi').test(this.toCSS());\n  },\n\n  isEmpty() {\n
return this.numerator.length === 0 && this.denominator.length === 0;\n  },\n\n  isSingular() {\n    return
this.numerator.length <= 1 && this.denominator.length === 0;\n  },\n\n  map(callback) {\n    let i;\n
for (i = 0; i < this.numerator.length; i++) {\n    this.numerator[i] = callback(this.numerator[i], false);\n    }\n
for (i = 0; i < this.denominator.length; i++) {\n    this.denominator[i] = callback(this.denominator[i], true);\n
}\n  },\n\n  usedUnits() {\n    let group;\n    const result = {};\n    let mapUnit;\n    let groupName;\n
mapUnit = function (atomicUnit) {\n
/* jshint loopfunc:true */\n    if (group.hasOwnProperty(atomicUnit) && !result[groupName]) {\n
result[groupName] = atomicUnit;\n    }\n    return atomicUnit;\n  }; \n
for (groupName in
unitConversions) {\n    if (unitConversions.hasOwnProperty(groupName)) {\n    group =
unitConversions[groupName];\n    this.map(mapUnit);\n    }\n  }\n  return result;\n  },\n\n  cancel() {\n    const counter = {};\n
let atomicUnit;\n    let i;\n
for (i = 0; i < this.numerator.length;
i++) {\n    atomicUnit = this.numerator[i];\n    counter[atomicUnit] = (counter[atomicUnit] || 0) + 1;\n
}\n
for (i = 0; i < this.denominator.length; i++) {\n    atomicUnit = this.denominator[i];\n
counter[atomicUnit] = (counter[atomicUnit] || 0) - 1;\n    }\n
this.numerator = [];\n    this.denominator =
[];\n
for (atomicUnit in counter) {\n    if (counter.hasOwnProperty(atomicUnit)) {\n    const count =
counter[atomicUnit];\n    if (count > 0) {\n    for (i = 0; i < count; i++) {\n
this.numerator.push(atomicUnit);\n    }\n    } else if (count < 0) {\n    for (i = 0; i < -
count; i++) {\n    this.denominator.push(atomicUnit);\n    }\n    }\n
}\n
this.numerator.sort();\n    this.denominator.sort();\n  });\n\nexport default Unit;\n", "import Node
from './node';\nimport unitConversions from './data/unit-conversions';\nimport Unit from './unit';\nimport Color
from './color';\n\n/\n A number with a unit\n\nconst Dimension = function(value, unit) {\n  this.value =
parseFloat(value);\n  if (isNaN(this.value)) {\n    throw new Error('Dimension is not a number.');

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doesn't need a leading zero\n      if (value > 0 && value < 1) {\n          strValue = (strValue).substr(1);\n      }\n      }\n      output.add(strValue);\n      this.unit.genCSS(context, output);\n      },\n      // In an operation\n      between two Dimensions,\n      // we default to the first Dimension's unit,\n      // so `1px + 2` will yield `3px`.\n      operate(context, op, other) {\n          /* jshint noempty:false */\n          let value = this._operate(context, op, this.value,\n          other.value);\n          let unit = this.unit.clone();\n          if (op === '+' || op === '-') {\n              if (unit.numerator.length\n              === 0 && unit.denominator.length === 0) {\n                  unit = other.unit.clone();\n                  if\n          (this.unit.backupUnit)\n          {\n              unit.backupUnit = this.unit.backupUnit;\n          }\n          } else if (other.unit.numerator.length\n          === 0 && unit.denominator.length === 0) {\n              // do nothing\n          } else {\n              other =\n          other.convertTo(this.unit.usedUnits());\n              if (context.strictUnits && other.unit.toString() !==\n          unit.toString()) {\n                  throw new Error(`Incompatible units. Change the units or use the unit function. `)\n          + `Bad units: '${unit.toString()}' and '${other.unit.toString()}'`);\n              }\n              value =\n          this._operate(context, op, this.value, other.value);\n          }\n          } else if (op === '*') {\n              unit.numerator =\n          unit.numerator.concat(other.unit.numerator).sort();\n              unit.denominator =\n          unit.denominator.concat(other.unit.denominator).sort();\n              unit.cancel();\n          } else if (op === '/') {\n              unit.numerator = unit.numerator.concat(other.unit.denominator).sort();\n              unit.denominator = unit.denominator.concat(other.unit.numerator).sort();\n              unit.cancel();\n          }\n          return new Dimension(value, unit);\n      },\n      compare(other) {\n          let a, b;\n          if (!(other instanceof\n          Dimension)) {\n              return undefined;\n          }\n          if (this.unit.isEmpty() || other.unit.isEmpty()) {\n              a\n          = this;\n              b = other;\n          } else {\n              a = this.unify();\n              b = other.unify();\n              if\n          (a.unit.compare(b.unit) !== 0) {\n                  return undefined;\n              }\n          }\n          return\n          Node.numericCompare(a.value, b.value);\n      },\n      unify() {\n          return this.convertTo({ length: 'px', duration:\n          's', angle: 'rad' });\n      },\n      convertTo(conversions) {\n          let value = this.value;\n          const unit =\n          this.unit.clone();\n          let i;\n          let groupName;\n          let group;\n          let targetUnit;\n          let derivedConversions = {};\n          let applyUnit;\n          if (typeof conversions ===\n          'string') {\n              for (i in unitConversions) {\n                  if (unitConversions[i].hasOwnProperty(conversions)) {\n                      derivedConversions = {};\n                      derivedConversions[i] = conversions;\n                  }\n              }\n              conversions = derivedConversions;\n          }\n          applyUnit = function (atomicUnit, denominator) {\n              /*\n          jshint loopfunc:true */\n              if (group.hasOwnProperty(atomicUnit)) {\n                  if (denominator) {\n                      value = value / (group[atomicUnit] / group[targetUnit]);\n                  } else {\n                      value = value *\n          (group[atomicUnit] / group[targetUnit]);\n                  }\n              }\n              return targetUnit;\n          }\n          return\n          atomicUnit;\n      };\n      for (groupName in conversions) {\n          if\n          (conversions.hasOwnProperty(groupName))\n          {\n              targetUnit = conversions[groupName];\n              group = unitConversions[groupName];\n              unit.map(applyUnit);\n          }\n          }\n          unit.cancel();\n          return new Dimension(value, unit);\n      }\n      });\n      \n      export default Dimension;\n      \n      import Node from './node';\n      import Color from './color';\n      import Dimension\n      from './dimension';\n      import * as Constants from './constants';\n      const MATH = Constants.Math;\n      \n      const\n      Operation = function(op, operands, isSpaced) {\n          this.op = op.trim();\n          this.operands = operands;\n          this.isSpaced = isSpaced;\n      };\n      \n      Operation.prototype = Object.assign(new Node(), {\n          type: 'Operation',\n          accept(visitor) {\n              this.operands = visitor.visitArray(this.operands);\n          },\n          eval(context) {\n              let a =\n          this.operands[0].eval(context), b = this.operands[1].eval(context), op;\n              if (context.isMathOn(this.op)) {\n                  op = this.op === '/'\n          ? '/' : this.op;\n                  if (a instanceof Dimension && b instanceof Color) {\n                      a = a.toColor();\n                  }\n                  if (b instanceof Dimension && a instanceof Color) {\n                      b = b.toColor();\n                  }\n                  if\n          (!a.operate || !b.operate) {\n                      if (\n          (a instanceof Operation || b instanceof Operation)\n          && a.op === '/' && context.math === MATH.PARENS_DIVISION\n          ) {\n                          return new\n          Operation(this.op, [a, b], this.isSpaced);\n                      }\n                      throw { type: 'Operation',\n          message:\n          'Operation on an invalid type' };\n                  }\n                  return a.operate(context, op, b);\n              } else {\n                  return

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new Operation(this.op, [a, b], this.isSpaced);\n    }\n  },\n\n  genCSS(context, output) {\n    this.operands[0].genCSS(context, output);\n    if (this.isSpaced) {\n      output.add(' ');\n    }\n    output.add(this.op);\n    if (this.isSpaced) {\n      output.add(' ');\n    }\n    this.operands[1].genCSS(context, output);\n  }\n});\n\nexport default Operation;\n", "import Node from\n'./node';\nimport Paren from './paren';\nimport Comment from './comment';\nimport Dimension from\n'./dimension';\n\nconst Expression = function(value, noSpacing) {\n  this.value = value;\n  this.noSpacing =\nnoSpacing;\n  if (!value) {\n    throw new Error('Expression requires an array parameter');\n  }\n};\n\nExpression.prototype = Object.assign(new Node(), {\n  type: 'Expression',\n\n  accept(visitor) {\n    this.value = visitor.visitArray(this.value);\n  },\n\n  eval(context) {\n    let returnValue;\n    const mathOn =\ncontext.isMathOn();\n    const inParenthesis = this.parens;\n\n    let doubleParen = false;\n    if\n(inParenthesis) {\n      context.inParenthesis();\n    }\n    if (this.value.length > 1) {\n      returnValue = new Expression(this.value.map(function (e) {\n        if (!e.eval) {\n          return e;\n        }\n        return e.eval(context);\n      }), this.noSpacing);\n    } else if (this.value.length === 1)\n{\n      if (this.value[0].parens && !this.value[0].parensInOp && !context.inCalc) {\n        doubleParen =\ntrue;\n      }\n      returnValue = this.value[0].eval(context);\n    } else {\n      returnValue = this;\n    }\n    if (inParenthesis) {\n      context.outOfParenthesis();\n    }\n    if (this.parens && this.parensInOp\n&& !mathOn && !doubleParen\n&& !(returnValue instanceof Dimension)) {\n      returnValue = new\nParen(returnValue);\n    }\n    return returnValue;\n  },\n\n  genCSS(context, output) {\n    for (let i = 0; i <\nthis.value.length; i++) {\n      this.value[i].genCSS(context, output);\n      if\n(!this.noSpacing && i + 1 < this.value.length) {\n        output.add(' ');\n      }\n    }\n  },\n\n  throwAwayComments() {\n    this.value = this.value.filter(function(v) {\n      return !(v instanceof\nComment);\n    });\n  }\n});\n\nexport default Expression;\n", "import Expression from\n'./tree/expression';\n\nclass functionCaller {\n  constructor(name, context, index, currentFileInfo) {\n    this.name = name.toLowerCase();\n    this.index = index;\n    this.context = context;\n    this.currentFileInfo\n= currentFileInfo;\n\n    this.func = context.frames[0].functionRegistry.get(this.name);\n  }\n\n  isValid() {\n    return Boolean(this.func);\n  }\n\n  call(args) {\n    if (!(Array.isArray(args))) {\n      args = [args];\n    }\n    const evalArgs = this.func.evalArgs;\n    if (evalArgs !== false) {\n      args = args.map(a =>\na.eval(this.context));\n    }\n    const commentFilter\n= item => !(item.type === 'Comment');\n\n    // This code is terrible and should be replaced as per this issue...\n// https://github.com/less/less.js/issues/2477\n    args = args\n      .filter(commentFilter)\n      .map(item\n=> {\n        if (item.type === 'Expression') {\n          const subNodes = item.value.filter(commentFilter);\n          if (subNodes.length === 1) {\n            // https://github.com/less/less.js/issues/3616\n\n            if (item.parens && subNodes[0].op === '/') {\n              return item;\n            }\n            return subNodes[0];\n          } else {\n            return new Expression(subNodes);\n          }\n        }\n        return item;\n      });\n    if (evalArgs === false) {\n      return this.func(this.context,\n...args);\n    }\n    return this.func(...args);\n  }\n}\n\nexport default functionCaller;\n", "/*!\n\n*****\n\nCopyright (c)\nMicrosoft Corporation.\n\nPermission to use, copy, modify, and/or distribute this software for any\npurpose\nwith or without fee is hereby granted.\n\nTHE SOFTWARE IS PROVIDED \"AS IS\" AND THE AUTHOR\nDISCLAIMS ALL WARRANTIES WITH\nREGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED\nWARRANTIES OF MERCHANTABILITY\nAND FITNESS. IN NO EVENT SHALL THE AUTHOR BE\nLIABLE FOR ANY SPECIAL, DIRECT,\nINDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY\nDAMAGES WHATSOEVER RESULTING FROM\nLOSS OF USE, DATA OR PROFITS, WHETHER IN AN\nACTION OF CONTRACT, NEGLIGENCE OR\nOTHER TORTIOUS ACTION, ARISING OUT OF OR IN\nCONNECTION WITH THE USE OR\nPERFORMANCE OF THIS\nSOFTWARE.\n\n*****\n\n*/\n\n* global Reflect, Promise *\n\nvar extendStatics = function(d, b) {\n  extendStatics\n}

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= Object.setPrototypeOf(
  ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
  function (d, b) { for (var p in b) if (Object.prototype.hasOwnProperty.call(b, p)) d[p] = b[p]; } ||
  extendStatics(d, b);
  export function __extends(d, b) {
    if (typeof b !== "function" && b !== null)
      throw new TypeError("Class extends value " + String(b) + " is not a constructor or null");
    extendStatics(d, b);
    function __() { this.constructor = d; }
    d.prototype = b === null ? Object.create(b) :
    (__proto__ = b.prototype, new __());
    export var __assign = function() {
      __assign = Object.assign ||
      function __assign(t) {
        for (var s, i = 1, n = arguments.length; i < n; i++) {
          s = arguments[i];
          for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p)) t[p] = s[p];
        }
        return t;
      };
      return __assign.apply(this, arguments);
    };
    export function __rest(s, e) {
      var t = {};
      for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0)
        t[p] = s[p];
      if (s != null && typeof Object.getOwnPropertySymbols === "function")
        for (var i = 0, p = Object.getOwnPropertySymbols(s); i < p.length; i++) {
          if (e.indexOf(p[i]) < 0 && Object.prototype.propertyIsEnumerable.call(s, p[i]))
            t[p[i]] = s[p[i]];
        }
      return t;
    };
    export function __decorate(decorators, target, key, desc) {
      var c = arguments.length, r = c < 3 ? target : desc === null ? desc = Object.getOwnPropertyDescriptor(target, key) :
      desc, d;
      if (typeof Reflect === "object" && typeof Reflect.decorate === "function") r =
      Reflect.decorate(decorators, target, key, desc);
      else for (var i = decorators.length - 1; i >= 0; i--) if (d =
      decorators[i]) r = (c < 3 ? d(r) : c > 3 ? d(target, key,
      r) : d(target, key)) || r;
      return c > 3 && r && Object.defineProperty(target, key, r, r);
    };
    export function __param(paramIndex, decorator) {
      return function (target, key) { decorator(target, key, paramIndex);
    };
    export function __metadata(metadataKey, metadataValue) {
      if (typeof Reflect === "object" &&
      typeof Reflect.metadata === "function") return Reflect.metadata(metadataKey, metadataValue);
    };
    export function __awaiter(thisArg, _arguments, P, generator) {
      function adopt(value) { return value instanceof P ?
      value : new P(function (resolve) { resolve(value); }); }
      return new (P || (P = Promise))(function (resolve, reject) {
        function fulfilled(value) { try { step(generator.next(value)); } catch (e) { reject(e); } }
        function rejected(value) { try { step(generator["throw"](value)); } catch (e) { reject(e); } }
        function step(result) {
          result.done ? resolve(result.value) : adopt(result.value).then(fulfilled,
          rejected);
        }
        step((generator = generator.apply(thisArg, _arguments || [])).next());
      });
    };
    export function __generator(thisArg, body) {
      var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[1];
      }, trys: [], ops: [] }, f, y, t, g;
      return g = { next: verb(0), "throw": verb(1), "return": verb(2) }, typeof Symbol ===
      "function" && (g[Symbol.iterator] = function() { return this; });
      function verb(n) { return function (v) {
        return step([n, v]); }; }
      function step(op) {
        if (f) throw new TypeError("Generator is already
        executing.");
        while (1) try {
          if (f = 1, y && (t = op[0] & 2 ? y["return"] : op[0] ? y["throw"] ||
          ((t = y["return"]) && t.call(y, 0) : y.next) && !(t = t.call(y, op[1])).done)
          return t;
          if (y = 0, t) op = [op[0] & 2, t.value];
          switch (op[0]) {
            case 0: case 1: t = op; break;
            case 4: _.label++; return { value: op[1], done: false };
            case 5: _.label++; y = op[1]; op = [0];
            continue;
            case 7: op = _.ops.pop(); _.trys.pop(); continue;
            default:
              if (!(t =
              _.trys, t = t.length > 0 && t[t.length - 1]) && (op[0] === 6 || op[0] === 2)) {
                _ = 0;
                continue;
              }
              if (op[0] === 3 && (!t || (op[1] > t[0] && op[1] < t[3]))) {
                _.label = op[1];
                break;
              }
              if (op[0] === 6 &&
              _.label < t[1]) {
                _.label = t[1];
                t = op;
                break;
              }
              if (t &&
              _.label < t[2]) {
                _.label = t[2];
                _.ops.push(op);
                break;
              }
              if (t[2] &&
              _.ops.pop();
              _.trys.pop();
              continue;
            }
            op =
            body.call(thisArg, _);
          } catch (e) { op = [6, e]; y = 0; } finally { f = t = 0; }
          if (op[0] & 5) throw
          op[1];
          return { value: op[0] ? op[1] : void 0, done: true };
        }
      };
      export
      var __createBinding = Object.create ? (function(o, m, k, k2) {
        if (k2 === undefined) k2 = k;
        Object.defineProperty(o, k2, { enumerable: true, get: function() { return m[k]; } });
      }) : (function(o, m, k, k2) {
        if (k2 === undefined) k2 = k;
        o[k2] = m[k];
      });
      export function __exportStar(m, o) {
        for (var p in m) if (p !== "default" && !Object.prototype.hasOwnProperty.call(o, p))
          __createBinding(o, m,
          p);
      };
      export function __values(o) {
        var s = typeof Symbol === "function" && Symbol.iterator, m =

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s && o[s], i = 0;\r\n  if (m) return m.call(o);\r\n  if (o && typeof o.length === "number") return {\r\n    next:
function () {\r\n      if (o && i >= o.length) o = void 0;\r\n      return { value: o && o[i++], done: !o };\r\n
}\r\n  };\r\n  throw new TypeError(s ? "Object is not iterable." : "Symbol.iterator is not
defined.");\r\n\r\n\r\nexport function __read(o, n) {\r\n  var m =
  typeof Symbol === "function" && o[Symbol.iterator];\r\n  if (!m) return o;\r\n  var i = m.call(o), r, ar = [],
e;\r\n  try {\r\n    while ((n === void 0 || n-- > 0) && !(r = i.next()).done) ar.push(r.value);\r\n  }\r\n  catch
(error) { e = { error: error }; }\r\n  finally {\r\n    try {\r\n      if (r && !r.done && (m = i["return"]))
m.call(i);\r\n    }\r\n    finally { if (e) throw e.error; }\r\n  }\r\n  return ar;\r\n}\r\n\r\n\r\n/** @deprecated
*/\r\nexport function __spread() {\r\n  for (var ar = [], i = 0; i < arguments.length; i++)\r\n    ar =
ar.concat(__read(arguments[i]));\r\n  return ar;\r\n}\r\n\r\n\r\n/** @deprecated */\r\nexport function __spreadArrays()
{\r\n  for (var s = 0, i = 0, il = arguments.length; i < il; i++) s += arguments[i].length;\r\n  for (var r = Array(s), k
= 0, i = 0; i < il; i++)\r\n    for (var a = arguments[i], j = 0, jl = a.length; j < jl; j++, k++)\r\n      r[k] = a[j];\r\n
return r;\r\n}\r\n\r\n\r\nexport
function __spreadArray(to, from, pack) {\r\n  if (pack || arguments.length === 2) for (var i = 0, l = from.length, ar;
i < l; i++) {\r\n    if (ar || !(i in from)) {\r\n      if (!ar) ar = Array.prototype.slice.call(from, 0, i);\r\n      ar[i]
= from[i];\r\n    }\r\n  }\r\n  return to.concat(ar || from);\r\n}\r\n\r\n\r\nexport function __await(v) {\r\n  return this
instanceof __await ? (this.v = v, this) : new __await(v);\r\n}\r\n\r\n\r\nexport function __asyncGenerator(thisArg,
_arguments, generator) {\r\n  if (!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not
defined.");\r\n  var g = generator.apply(thisArg, _arguments || []), i, q = [];\r\n  return i = { }, verb("next"),
verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () { return this; }, i;\r\n  function verb(n) { if
(g[n]) i[n] = function (v) { return new Promise(function (a, b) { q.push([n, v, a, b]) > 1 || resume(n, v); }); };\r\n
function
resume(n, v) { try { step(g[n](v)); } catch (e) { settle(q[0][3], e); } }\r\n  function step(r) { r.value instanceof
__await ? Promise.resolve(r.value.v).then(fulfill, reject) : settle(q[0][2], r); }\r\n  function fulfill(value) {
resume("next", value); }\r\n  function reject(value) { resume("throw", value); }\r\n  function settle(f, v) { if
(f(v), q.shift(), q.length) resume(q[0][0], q[0][1]); }\r\n}\r\n\r\n\r\nexport function __asyncDelegator(o) {\r\n  var i,
p;\r\n  return i = { }, verb("next"), verb("throw"), function (e) { throw e; }, verb("return"), i[Symbol.iterator] =
function () { return this; }, i;\r\n  function verb(n, f) { i[n] = o[n] ? function (v) { return (p = !p) ? { value:
__await(o[n](v)), done: n === "return" } : f ? f(v) : v; } : f; }\r\n}\r\n\r\n\r\nexport function __asyncValues(o) {\r\n  if
(!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not defined.");\r\n  var m =
o[Symbol.asyncIterator], i;\r\n  return m ? m.call(o)
: (o = typeof __values === "function" ? __values(o) : o[Symbol.iterator](), i = { }, verb("next"), verb("throw"),
verb("return"), i[Symbol.asyncIterator] = function () { return this; }, i);\r\n  function verb(n) { i[n] = o[n] &&
function (v) { return new Promise(function (resolve, reject) { v = o[n](v), settle(resolve, reject, v.done, v.value); });
}; }\r\n  function settle(resolve, reject, d, v) { Promise.resolve(v).then(function(v) { resolve({ value: v, done: d });
}, reject); }\r\n}\r\n\r\n\r\nexport function __makeTemplateObject(cooked, raw) {\r\n  if (Object.defineProperty) {
Object.defineProperty(cooked, "raw", { value: raw }); } else { cooked.raw = raw; }\r\n  return
cooked;\r\n}\r\n\r\n\r\nvar __setModuleDefault = Object.create ? (function(o, v) {\r\n  Object.defineProperty(o,
"default", { enumerable: true, value: v });\r\n}) : function(o, v) {\r\n  o["default"] = v;\r\n}\r\n\r\n\r\nexport
function __importStar(mod) {\r\n  if (mod && mod.__esModule) return mod;\r\n
var result = {};\r\n  if (mod != null) for (var k in mod) if (k !== "default" &&
Object.prototype.hasOwnProperty.call(mod, k)) __createBinding(result, mod, k);\r\n  __setModuleDefault(result,
mod);\r\n  return result;\r\n}\r\n\r\n\r\nexport function __importDefault(mod) {\r\n  return (mod &&
mod.__esModule) ? mod : { default: mod };\r\n}\r\n\r\n\r\nexport function __classPrivateFieldGet(receiver, state, kind,
f) {\r\n  if (kind === "a" && !f) throw new TypeError("Private accessor was defined without a getter");\r\n  if
(typeof state === "function" ? receiver !== state || !f : !state.has(receiver)) throw new TypeError("Cannot read
private member from an object whose class did not declare it");\r\n  return kind === "m" ? f : kind === "a" ?
f.call(receiver) : f ? f.value : state.get(receiver);\r\n}\r\n\r\n\r\nexport function __classPrivateFieldSet(receiver, state,

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value, kind, f) {\r\n  if (kind === \"m\") throw new TypeError(\"Private method is not writable\");\r\n
  if (kind === \"a\" && !f) throw new TypeError(\"Private accessor was defined without a setter\");\r\n  if (typeof
state === \"function\" ? receiver !== state || !f : !state.has(receiver)) throw new TypeError(\"Cannot write private
member to an object whose class did not declare it\");\r\n  return (kind === \"a\" ? f.call(receiver, value) : f ?
f.value = value : state.set(receiver, value)), value);\r\n}\r\n\", \"import Node from './node';\nimport Anonymous from
 './anonymous';\nimport FunctionCaller from './functions/function-caller';\n\n// A function call node.\n\nconst
Call = function(name, args, index, currentFileInfo) {\n  this.name = name;\n  this.args = args;\n  this.calc = name
=== 'calc';\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n}\n\nCall.prototype = Object.assign(new
Node(), {\n  type: 'Call',\n\n  accept(visitor) {\n    if (this.args) {\n      this.args =
visitor.visitArray(this.args);\n    }\n  },\n\n  //\n
  // When evaluating a function call,\n  // we either find the function in the functionRegistry,\n  // in which case
we call it, passing the evaluated arguments,\n  // if this returns null or we cannot find the function, we\n  // simply
print it out as it appeared originally [2].\n  //\n  // The reason why we evaluate the arguments, is in the case
where\n  // we try to pass a variable to a function, like: `saturate(@color)`.\n  // The function should receive the
value, not the variable.\n  //\n  eval(context) {\n    /**\n     * Turn off math for calc(), and switch back on for
evaluating nested functions\n     *\n     const currentMathContext = context.mathOn;\n     context.mathOn =
!this.calc;\n     if (this.calc || context.inCalc) {\n       context.enterCalc();\n     }\n     const exitCalc = () =>
{\n       if (this.calc || context.inCalc) {\n         context.exitCalc();\n       }\n       context.mathOn =
currentMathContext;\n     };\n     let result;\n     const funcCaller = new FunctionCaller(this.name, context, this.getIndex(),
this.fileInfo());\n     if (funcCaller.isValid()) {\n       try {\n         result = funcCaller.call(this.args);\n       }
catch (e) {\n         if (e.hasOwnProperty('line') && e.hasOwnProperty('column')) {\n           throw e;\n         }
throw {\n           type: e.type || 'Runtime',\n           message:
`Error evaluating function \\`${this.name}\\`${e.message ? `: ` + e.message : ``}`,\n           index:
this.getIndex(),\n           filename: this.fileInfo().filename,\n           line: e.lineNumber,\n           column:
e.columnNumber\n         };\n       }\n     }\n     if (result !== null && result !== undefined) {\n
      // Results that that are not nodes are cast as Anonymous
nodes\n      // Falsy values or booleans are returned as empty nodes\n      if (!(result instanceof Node)) {\n
        if (!result || result === true) {\n          result = new Anonymous(null);\n        } else {\n
          result = new Anonymous(result.toString());\n        }\n        \n        result._index =
this._index;\n        result._fileInfo = this._fileInfo;\n        return result;\n      }\n      const args =
this.args.map(a => a.eval(context));\n      exitCalc();\n      return new Call(this.name, args, this.getIndex(),
this.fileInfo());\n    },\n\n    genCSS(context, output) {\n      output.add(`${this.name}`, this.fileInfo(),
this.getIndex());\n      for (let i = 0; i < this.args.length; i++) {\n        this.args[i].genCSS(context, output);\n
        if (i + 1 < this.args.length) {\n          output.add(', ');\n        }\n      }\n      output.add(');\n    }
  });\n\nexport default Call;\n\", \"import Node from './node';\nimport Call from
 './call';\n\nconst Variable = function(name, index, currentFileInfo) {\n  this.name = name;\n  this._index =
index;\n  this._fileInfo = currentFileInfo;\n};\n\nVariable.prototype = Object.assign(new Node(), {\n  type:
'Variable',\n\n  eval(context) {\n    let variable, name = this.name;\n    if (name.indexOf('@') === 0) {\n
      name = `@${new Variable(name.slice(1), this.getIndex(), this.fileInfo()).eval(context).value}`;\n    }\n\n
    if (this.evaluating) {\n      throw {\n        type: 'Name',\n        message: `Recursive variable definition for
${name}`,\n        filename: this.fileInfo().filename,\n        index: this.getIndex()\n      };\n    }\n\n
    this.evaluating = true;\n    variable = this.find(context.frames, function (frame) {\n      const v =
frame.variable(name);\n      if (v) {\n
        if (v.important) {\n          const importantScope =
context.importantScope[context.importantScope.length - 1];\n          importantScope.important =
v.important;\n        }\n        // If in calc, wrap vars in a function call to cascade evaluate args first\n
        if (context.inCalc) {\n          return (new Call('_SELF', [v.value])).eval(context);\n        } else

```



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    return v.value.eval(context);
  }
});
if (variable) {
  this.evaluating = false;
  return variable;
} else {
  throw { type: 'Name', message:
`variable ${name} is undefined`,
    filename: this.fileInfo().filename,
    index: this.getIndex() };
}
},
find(obj, fun) {
  for (let i = 0, r; i < obj.length; i++) {
    r = fun.call(obj, obj[i]);
    if (r) { return r; }
  }
  return null;
});
export default Variable;
import Node from
'./node';
import Declaration from './declaration';
const Property = function(name, index, currentFileInfo) {
  this.name = name;
  this._index = index;
  this._fileInfo = currentFileInfo;
};
Property.prototype =
Object.assign(new Node(), {
  type: 'Property',
  eval(context) {
    let property;
    const name =
this.name;
    // TODO: shorten this reference
    const mergeRules =
context.pluginManager.less.visitors.ToCSSVisitor.prototype._mergeRules;
    if (this.evaluating) {
      throw { type: 'Name', message: `Recursive property reference for ${name}`,
        filename:
this.fileInfo().filename,
        index: this.getIndex() };
    }
    this.evaluating = true;
    property
= this.find(context.frames, function (frame) {
      let v;
      const vArr = frame.property(name);
      if (vArr) {
        for (let i = 0; i < vArr.length; i++) {
          v = vArr[i];
          vArr[i] = new Declaration(v.name,
            v.value,
            v.important,
            v.merge,
            v.index,
            v.currentFileInfo,
            v.inline,
            v.variable);
          mergeRules(vArr);
          v =
vArr[vArr.length - 1];
          if (v.important) {
            const importantScope =
context.importantScope[context.importantScope.length - 1];
            importantScope.important =
v.important;
            v = v.value.eval(context);
            return v;
          }
        }
      }
      if (property) {
        this.evaluating = false;
        return property;
      }
    } else {
      throw { type: 'Name', message: `Property '${name}' is undefined`,
        filename: this.currentFileInfo.filename,
        index: this.index };
    }
  },
  find(obj, fun) {
    for (let i = 0, r; i < obj.length; i++) {
      r = fun.call(obj, obj[i]);
      if (r) { return r; }
    }
    return
null;
  });
export default Property;
import Node from './node';
const Attribute = function(key, op,
value, cif) {
  this.key = key;
  this.op = op;
  this.value = value;
  this.cif = cif;
};
Attribute.prototype =
Object.assign(new Node(), {
  type: 'Attribute',
  eval(context) {
    return new Attribute(
this.key.eval ? this.key.eval(context) : this.key,
    this.op,
    (this.value && this.value.eval) ?
this.value.eval(context) : this.value,
    this.cif);
  },
  genCSS(context, output)
{
  output.add(this.toCSS(context));
},
  toCSS(context) {
    let value = this.key.toCSS ?
this.key.toCSS(context) : this.key;
    if (this.op) {
      value += this.op;
      value +=
(this.value.toCSS ? this.value.toCSS(context) : this.value);
    }
    if (this.cif) {
      value = value + "\"
\" + this.cif;
    }
    return `[${value}]`;
  });
export default Attribute;
import Node from
'./node';
import Variable from './variable';
import Property from './property';
const Quoted = function(str,
content, escaped, index, currentFileInfo) {
  this.escaped = (escaped == null) ? true : escaped;
  this.value =
content || "";
  this.quote = str.charAt(0);
  this._index = index;
  this._fileInfo = currentFileInfo;
  this.variableRegex = /@\{([\w-]+\)\}/g;
  this.propRegex = /\$\{([\w-]+\)\}/g;
  this.allowRoot =
escaped;
};
Quoted.prototype = Object.assign(new Node(),
{
  type: 'Quoted',
  genCSS(context, output) {
    if (!this.escaped) {
      output.add(this.quote,
this.fileInfo(), this.getIndex());
    }
    output.add(this.value);
    if (!this.escaped) {
      output.add(this.quote);
    }
  },
  containsVariables() {
    return
this.value.match(this.variableRegex);
  },
  eval(context) {
    const that = this;
    let value =
this.value;
    const variableReplacement = function (_, name) {
      const v = new Variable(`@${name}`,
that.getIndex(), that.fileInfo()).eval(context, true);
      return (v instanceof Quoted) ? v.value : v.toCSS();
    };
    const propertyReplacement = function (_, name) {
      const v = new Property(`$$${name}`,
that.getIndex(), that.fileInfo()).eval(context, true);
      return (v instanceof Quoted) ? v.value : v.toCSS();
    };
    function iterativeReplace(value, regexp, replacementFnc)

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    {\n      let evaluatedValue = value;\n      do {\n        value = evaluatedValue.toString();\n        evaluatedValue = value.replace(regexp, replacementFunc);\n      } while (value !== evaluatedValue);\n    }\n    return evaluatedValue;\n  }\n  value = iterativeReplace(value, this.variableRegex, variableReplacement);\n  value = iterativeReplace(value, this.propRegex, propertyReplacement);\n  return new Quoted(this.quote + value + this.quote, value, this.escaped, this.getIndex(), this.fileInfo());\n},\n\n compare(other) {\n  // when comparing quoted strings allow the quote to differ\n  if (other.type === 'Quoted' && !this.escaped && !other.escaped) {\n    return Node.numericCompare(this.value, other.value);\n  } else {\n    return other.toCSS() && this.toCSS() === other.toCSS() ? 0 : undefined;\n  }\n}\n});\n\nexport default Quoted;\n", "import Node from './node';\n\nfunction escapePath(path) {\n  return path.replace(/[\(\)\\"'\\s]/g, function(match) { return `\\${match}`; });\n}\n\nconst URL = function(val, index, currentFileInfo, isEvald) {\n  this.value = val;\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n  this.isEvald = isEvald;\n};\n\nURL.prototype = Object.assign(new Node(), {\n  type: 'Url',\n\n  accept(visitor) {\n    this.value = visitor.visit(this.value);\n  },\n\n  genCSS(context, output) {\n    output.add('url(');\n    this.value.genCSS(context, output);\n    output.add('');\n  },\n\n  eval(context) {\n    const val = this.value.eval(context);\n    let rootpath;\n\n    if (!this.isEvald) {\n      // Add the rootpath if the URL requires a rewrite\n      rootpath = this.fileInfo() && this.fileInfo().rootpath;\n      if (typeof rootpath === 'string' && \n        typeof val.value === 'string' && \n        context.pathRequiresRewrite(val.value)) {\n        if (!val.quote) {\n          rootpath = escapePath(rootpath);\n        }\n        val.value = context.rewritePath(val.value, rootpath);\n      } else {\n        val.value = context.normalizePath(val.value);\n      }\n\n      // Add url args if enabled\n      if (context.urlArgs) {\n        if (!val.value.match(/^\\s*data:/)) {\n          const delimiter = val.value.indexOf('?') === -1 ? '?' : '&';\n          const urlArgs = delimiter + context.urlArgs;\n          if (val.value.indexOf('#') !== -1) {\n            val.value = val.value.replace('#', ` ${urlArgs}#`);\n          } else {\n            val.value += urlArgs;\n          }\n        }\n      }\n    }\n\n    return new URL(val, this.getIndex(), this.fileInfo(), true);\n  }\n});\n\nexport default URL;\n", "import Ruleset from './ruleset';\nimport Value from './value';\nimport Selector from './selector';\nimport Anonymous from './anonymous';\nimport Expression from './expression';\nimport AtRule from './atrule';\nimport * as utils from './utils';\n\nconst Media = function(value, features, index, currentFileInfo, visibilityInfo) {\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n\n  const selectors = (new Selector([], null, null, this._index, this._fileInfo)).createEmptySelectors();\n  this.features = new Value(features);\n  this.rules = [new Ruleset(selectors, value)];\n  this.rules[0].allowImports = true;\n  this.copyVisibilityInfo(visibilityInfo);\n  this.allowRoot = true;\n  this.setParent(selectors, this);\n  this.setParent(this.features, this);\n  this.setParent(this.rules, this);\n\n  Media.prototype = Object.assign(new AtRule(), {\n    type: 'Media',\n\n    isRulesetLike() {\n      return true;\n    },\n\n    accept(visitor) {\n      if (this.features) {\n        this.features = visitor.visit(this.features);\n      }\n\n      if (this.rules) {\n        this.rules = visitor.visitArray(this.rules);\n      }\n    },\n\n    genCSS(context, output) {\n      output.add('@media ', this._fileInfo, this._index);\n      this.features.genCSS(context, output);\n      this.outputRuleset(context, output, this.rules);\n    },\n\n    eval(context) {\n      if (!context.mediaBlocks) {\n        context.mediaBlocks = [];\n        context.mediaPath = [];\n      }\n\n      const media = new Media(null, [], this._index, this._fileInfo, this.visibilityInfo);\n      if (this.debugInfo) {\n        this.rules[0].debugInfo = this.debugInfo;\n        media.debugInfo = this.debugInfo;\n      }\n\n      media.features = this.features.eval(context);\n      context.mediaPath.push(media);\n      context.mediaBlocks.push(media);\n\n      this.rules[0].functionRegistry = context.frames[0].functionRegistry.inherit();\n      context.frames.unshift(this.rules[0]);\n\n      media.rules = [this.rules[0].eval(context)];\n      context.frames.shift();\n      context.mediaPath.pop();\n\n      return context.mediaPath.length === 0 ? media.evalTop(context) :\n        media.evalNested(context);\n    },\n\n    evalTop(context) {\n      let result = this;\n\n      // Render all dependent Media blocks.\n      if (context.mediaBlocks.length > 1) {\n        const selectors = (new Selector([], null, null, this.getIndex(),

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this.fileInfo()).createEmptySelectors();\n      result = new Ruleset(selectors, context.mediaBlocks);\nresult.multiMedia = true;\n      result.copyVisibilityInfo(this.visibilityInfo());\n      this.setParent(result,\nthis);\n    }\n\n    delete context.mediaBlocks;\n    delete context.mediaPath;\n\n    return result;\n  },\n\n  evalNested(context) {\n    let i;\n    let value;\n    const path = context.mediaPath.concat([this]);\n\n    // Extract the media-query conditions separated with ` ` (OR).\n    for (i = 0; i < path.length; i++) {\n      value = path[i].features instanceof Value ?\n        path[i].features.value : path[i].features;\n      path[i] =\n      Array.isArray(value) ? value : [value];\n    }\n\n    // Trace all permutations to generate the resulting media-\nquery.\n    //\n    // (a, b and c) with nested (d, e) ->\n    // a and d\n    // a and e\n    // b and c and\n    // b and c and e\n    this.features = new Value(this.permute(path).map(path => {\n      path =\n      path.map(fragment => fragment.toCSS ? fragment : new Anonymous(fragment));\n\n      for (i = path.length - 1;\ni > 0; i--) {\n        path.splice(i, 0, new Anonymous('and'));\n      }\n\n      return new Expression(path);\n    }));\n    this.setParent(this.features, this);\n\n    // Fake a tree-node that doesn't output anything.\n    return new Ruleset([], []);\n  },\n\n  permute(arr) {\n    if (arr.length === 0) {\n      return [];\n    }\n    else if (arr.length === 1) {\n      return arr[0];\n    } else {\n      const result = [];\n      const rest =\n      this.permute(arr.slice(1));\n      for (let i = 0; i < rest.length; i++) {\n        for (let j = 0; j < arr[0].length; j++) {\n          result.push([arr[0][j]].concat(rest[i]));\n        }\n      }\n      return result;\n    }\n  },\n\n  bubbleSelectors(selectors) {\n    if (!selectors) {\n      return;\n    }\n    this.rules = [new\nRuleset(utils.copyArray(selectors), [this.rules[0]]);\n    this.setParent(this.rules, this);\n  }]);\n\nexport default\nMedia;\n\n",\n\n  "import Node from './node';\nimport Media from './media';\nimport URL from './url';\nimport Quoted\nfrom './quoted';\nimport Ruleset from './ruleset';\nimport Anonymous from './anonymous';\nimport\n* as utils from './utils';\nimport LessError from './less-error';\n\n\n// CSS @import node\n\n// The general\nstrategy here is that we don't want to wait\nfor the parsing to be completed, before we start importing\nthe file.\nThat's because in the context of a browser,\nmost of the time will be spent waiting for the server to respond.\n\n\nOn creation, we push the import path to our import queue, though\nimport, push, we also pass it a callback,\nwhich it'll call once\nthe file has been fetched, and parsed.\n\n\nconst Import = function(path, features, options,\nindex, currentFileInfo, visibilityInfo) {\n  this.options = options;\n  this._index = index;\n  this._fileInfo =\ncurrentFileInfo;\n  this.path = path;\n  this.features = features;\n  this.allowRoot = true;\n\n  if (this.options.less\n!== undefined || this.options.inline) {\n    this.css = !this.options.less || this.options.inline;\n  } else {\n    const\npathValue = this.getPath();\n\n    if (pathValue && /[#\.\&\?]\css(?:\?;|.)*?$/i.test(pathValue)) {\n      this.css = true;\n    }\n  }\n\n  this.copyVisibilityInfo(visibilityInfo);\n  this.setParent(this.features, this);\n  this.setParent(this.path,\nthis);\n};\n\nImport.prototype = Object.assign(new Node(), {\n  type: 'Import',\n\n  accept(visitor) {\n    if\n(this.features) {\n      this.features = visitor.visit(this.features);\n    }\n    this.path = visitor.visit(this.path);\n\n    if (!this.options.isPlugin && !this.options.inline && this.root) {\n      this.root = visitor.visit(this.root);\n    }\n  },\n\n  genCSS(context, output) {\n    if (this.css && this.path._fileInfo.reference === undefined) {\n      output.add('@import ', this._fileInfo, this._index);\n      this.path.genCSS(context, output);\n    }\n\n    if\n(this.features) {\n      output.add(' '); \n      this.features.genCSS(context, output);\n    }\n\n    output.add(';');\n  },\n\n  getPath() {\n    return (this.path instanceof URL) ?\nthis.path.value.value : this.path.value;\n  },\n\n  isVariableImport() {\n    let path = this.path;\n\n    if (path\ninstanceof URL) {\n      path = path.value;\n    }\n\n    if (path instanceof Quoted) {\n      return\n      path.containsVariables();\n    }\n\n    return true;\n  },\n\n  evalForImport(context) {\n    let path =\nthis.path;\n\n    if (path instanceof URL) {\n      path = path.value;\n    }\n\n    return new\nImport(path.eval(context), this.features, this.options, this._index, this._fileInfo, this.visibilityInfo());\n  },\n\n  evalPath(context) {\n    const path = this.path.eval(context);\n    const fileInfo = this._fileInfo;\n\n    if (!(path\ninstanceof URL)) {\n      // Add the rootpath if the URL requires a rewrite\n      const pathValue =\n      path.value;\n\n      if (fileInfo &&\n      pathValue &&\n      context.pathRequiresRewrite(pathValue)) {\n        path.value = context.rewritePath(pathValue, fileInfo.rootpath);\n      } else {\n        path.value =

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context.normalizePath(path.value);\n        }\n        }\n        return path;\n    },\n\n    eval(context) {\n        const
result = this.doEval(context);\n        if (this.options.reference || this.blocksVisibility()) {\n            if (result.length ||
result.length === 0) {\n                result.forEach(function (node) {\n                    node.addVisibilityBlock();\n                });\n            } else {\n                result.addVisibilityBlock();\n            }\n        }\n        return result;\n    },\n\n    doEval(context) {\n        let ruleset;\n        let registry;\n        const features = this.features &&
this.features.eval(context);\n\n        if (this.options.isPlugin) {\n            if (this.root &&
this.root.eval) {\n                try {\n                    this.root.eval(context);\n                }\n                catch (e) {\n                    e.message = 'Plugin error during evaluation';\n                    throw new LessError(e, this.root.imports,
this.root.filename);\n                }\n            }\n            registry = context.frames[0] &&
context.frames[0].functionRegistry;\n            if ( registry && this.root && this.root.functions ) {\n                registry.addMultiple( this.root.functions );\n            }\n            return [];\n        }\n\n        if (this.skip) {\n            if
(typeof this.skip === 'function') {\n                this.skip = this.skip();\n            }\n            if (this.skip) {\n                return [];\n            }\n        }\n\n        if (this.options.inline) {\n            const contents = new Anonymous(this.root, 0,\n            {\n                filename: this.importedFilename,\n                reference:
this.path._fileInfo && this.path._fileInfo.reference\n            }, true, true);\n\n            return this.features ? new
Media([contents], this.features.value) : [contents];\n        } else if (this.css) {\n            const newImport = new
Import(this.evalPath(context), features, this.options, this._index);\n            if (!newImport.css && this.error) {\n                throw this.error;\n            }\n            return newImport;\n        } else if (this.root) {\n            ruleset = new
Ruleset(null, utils.copyArray(this.root.rules));\n            ruleset.evalImports(context);\n            return this.features ?
new Media(ruleset.rules, this.features.value) : ruleset.rules;\n        } else {\n            return [];\n        }\n    },\n\n    export default Import;\n\n", "import Node from './node';\nimport Variable from './variable';\n\nconst
JsEvalNode = function() {};\n\nJsEvalNode.prototype = Object.assign(new Node(), {\n\n    evaluateJavaScript(expression, context) {\n        let result;\n        const that = this;\n        const evalContext = {};\n\n        if (!context.javascriptEnabled) {\n            throw { message: 'Inline JavaScript is not enabled. Is it set in your options?',\n                filename:
this.fileInfo().filename,\n                index: this.getIndex() };\n        }\n\n        expression =
expression.replace(/@\\{([\\w-]+)\\}/g, function (_, name) {\n            return that.jsify(new Variable(`@${name}`,\n            that.getIndex(), that.fileInfo()).eval(context));\n        });\n\n        try {\n            expression = new Function(`return
(${expression})`);\n        } catch (e) {\n            throw { message: `JavaScript evaluation error: ${e.message} from
\\`${expression}\\``,\n                filename: this.fileInfo().filename,\n                index: this.getIndex() };\n        }\n\n        const variables = context.frames[0].variables();\n        for (const k in variables) {\n            if
(variables.hasOwnProperty(k)) {\n                /* jshint loopfunc:true */\n                evalContext[k.slice(1)] = {\n                    value: variables[k].value,\n                    toJS: function () {\n                        return this.value.eval(context).toCSS();\n                    }\n                };\n            }\n        }\n\n        try {\n            result = expression.call(evalContext);\n        } catch (e) {\n            throw {
message: `JavaScript evaluation error: ${e.name}: ${e.message.replace(/[/]/g, "\\")}`,\n                filename:
this.fileInfo().filename,\n                index: this.getIndex() };\n        }\n\n        return result;\n    },\n\n    jsify(obj) {\n        if (Array.isArray(obj.value) && (obj.value.length > 1)) {\n            return `${obj.value.map(function (v) { return
v.toCSS(); }).join(', ')}`;\n        } else {\n            return obj.toCSS();\n        }\n    },\n\n    export default
JsEvalNode;\n\n", "import JsEvalNode from './js-eval-node';\nimport Dimension from './dimension';\nimport
Quoted from './quoted';\nimport Anonymous from './anonymous';\n\nconst JavaScript = function(string, escaped,
index, currentFileInfo) {\n    this.escaped = escaped;\n    this.expression = string;\n    this._index = index;\n    this._fileInfo = currentFileInfo;\n}\n\nJavaScript.prototype = Object.assign(new JsEvalNode(), {\n    type:
'JavaScript',\n\n    eval(context) {\n        const result = this.evaluateJavaScript(this.expression, context);\n        const
type = typeof result;\n\n        if (type === 'number' && !isNaN(result)) {\n            return new Dimension(result);\n        }
else if (type === 'string') {\n            return new Quoted(`"${result}"`, result, this.escaped, this._index);\n        }
else if (Array.isArray(result)) {\n            return new Anonymous(result.join(', '));\n        } else {\n            return new
Anonymous(result);\n        }\n    },\n\n    export default JavaScript;\n\n", "import Node from './node';\n\nconst

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Assignment = function(key,
val) {\n  this.key = key;\n  this.value = val;\n}\n\nAssignment.prototype = Object.assign(new Node(), {\n  type:
'Assignment',\n\n  accept(visitor) {\n    this.value = visitor.visit(this.value);\n  },\n\n  eval(context) {\n    if
(this.value.eval) {\n      return new Assignment(this.key, this.value.eval(context));\n    }\n    return this;\n  },\n\n  genCSS(context, output) {\n    output.add(`\${this.key}=`);\n    if (this.value.genCSS) {\n
this.value.genCSS(context, output);\n    } else {\n      output.add(this.value);\n    }\n  }\n});\n\nexport
default Assignment;\n"}, "import Node from './node';\n\nconst Condition = function(op, l, r, i, negate) {\n  this.op =
op.trim();\n  this.lvalue = l;\n  this.rvalue = r;\n  this._index = i;\n  this.negate =
negate;\n};\n\nCondition.prototype = Object.assign(new Node(), {\n  type: 'Condition',\n\n  accept(visitor) {\n
this.lvalue = visitor.visit(this.lvalue);\n    this.rvalue = visitor.visit(this.rvalue);\n  },\n\n  eval(context) {\n    const result = (function (op, a, b) {\n
switch (op) {\n      case 'and': return a && b;\n      case 'or': return a || b;\n      default:\n
switch (Node.compare(a, b)) {\n        case -1:\n          return op === '<' || op === '<=' || op
=== '<=';\n        case 0:\n          return op === '=' || op === '>=' || op === '<=' || op === '<=';\n
        case 1:\n          return op === '>' || op === '>=';\n          default:\n
return false;\n        }\n      }\n    })(this.op, this.lvalue.eval(context), this.rvalue.eval(context));\n    return this.negate ? !result : result;\n  }\n});\n\nexport default Condition;\n"}, "import Node from './node';\n\nconst
UnicodeDescriptor
= function(value) {\n  this.value = value;\n}\n\nUnicodeDescriptor.prototype = Object.assign(new Node(), {\n
type: 'UnicodeDescriptor'\n});\n\nexport default UnicodeDescriptor;\n"}, "import Node from './node';\n\nimport
Operation from './operation';\n\nimport Dimension from './dimension';\n\nconst Negative = function(node) {\n
this.value = node;\n};\n\nNegative.prototype = Object.assign(new Node(), {\n  type: 'Negative',\n\n  genCSS(context, output) {\n    output.add('-');\n    this.value.genCSS(context, output);\n  },\n\n  eval(context)
{\n    if (context.isMathOn()) {\n      return (new Operation('*', [new Dimension(-1),
this.value])).eval(context);\n    }\n    return new Negative(this.value.eval(context));\n  }\n});\n\nexport default
Negative;\n"}, "import Node from './node';\n\nimport Selector from './selector';\n\nconst Extend = function(selector,
option, index, currentFileInfo, visibilityInfo) {\n  this.selector = selector;\n  this.option
= option;\n  this.object_id = Extend.next_id++;\n  this.parent_ids = [this.object_id];\n  this._index = index;\n
this._fileInfo = currentFileInfo;\n  this.copyVisibilityInfo(visibilityInfo);\n  this.allowRoot = true;\n\n  switch
(option) {\n    case 'all':\n      this.allowBefore = true;\n      this.allowAfter = true;\n      break;\n
default:\n      this.allowBefore = false;\n      this.allowAfter = false;\n      break;\n  }\n\n  this.setParent(this.selector, this);\n};\n\nExtend.prototype = Object.assign(new Node(), {\n  type: 'Extend',\n\n  accept(visitor) {\n    this.selector = visitor.visit(this.selector);\n  },\n\n  eval(context) {\n    return new
Extend(this.selector.eval(context), this.option, this.getIndex(), this.fileInfo(), this.visibilityInfo());\n  },\n\n  clone(context) {\n    return new Extend(this.selector, this.option, this.getIndex(), this.fileInfo(),
this.visibilityInfo());\n  },\n\n  // it concatenates (joins) all selectors in selector array\n  findSelfSelectors(selectors) {\n    let selfElements =
[], i, selectorElements;\n    for (i = 0; i < selectors.length; i++) {\n      selectorElements =
selectors[i].elements;\n      // duplicate the logic in genCSS function inside the selector node.\n      // future
TODO - move both logics into the selector joiner visitor\n      if (i > 0 && selectorElements.length &&
selectorElements[0].combinator.value === ") {\n        selectorElements[0].combinator.value = ' ';\n      }\n      selfElements = selfElements.concat(selectors[i].elements);\n    }\n    this.selfSelectors = [new
Selector(selfElements)];\n    this.selfSelectors[0].copyVisibilityInfo(this.visibilityInfo());\n  }\n});\n\nExtend.next_id = 0;\n\nexport default Extend;\n"}, "import Node from './node';\n\nimport Variable from
'./variable';\n\nimport Ruleset from './ruleset';\n\nimport DetachedRuleset
from './detached-ruleset';\n\nimport LessError from './less-error';\n\nconst VariableCall = function(variable, index,
currentFileInfo) {\n  this.variable = variable;\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n
this.allowRoot = true;\n};\n\nVariableCall.prototype = Object.assign(new Node(), {\n  type: 'VariableCall',\n\n

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eval(context) {\n    let rules;\n    let detachedRuleset = new Variable(this.variable, this.getIndex(),
this.fileInfo()).eval(context);\n    const error = new LessError({ message: `Could not evaluate variable call
${this.variable}` });\n\n    if (!detachedRuleset.ruleset) {\n        if (detachedRuleset.rules) {\n            rules =
detachedRuleset;\n        }\n        else if (Array.isArray(detachedRuleset)) {\n            rules = new Ruleset(",
detachedRuleset);\n        }\n        else if (Array.isArray(detachedRuleset.value)) {\n            rules = new
Ruleset(", detachedRuleset.value);\n
        }\n        else {\n            throw error;\n        }\n        detachedRuleset = new
DetachedRuleset(rules);\n    }\n\n    if (detachedRuleset.ruleset) {\n        return
detachedRuleset.callEval(context);\n    }\n    throw error;\n };\n\nexport default VariableCall;\n", "import
Node from './node';\nimport Variable from './variable';\nimport Ruleset from './ruleset';\nimport Selector from
'./selector';\n\nconst NamespaceValue = function(ruleCall, lookups, index, fileInfo) {\n    this.value = ruleCall;\n
this.lookups = lookups;\n    this._index = index;\n    this._fileInfo = fileInfo;\n};\n\nNamespaceValue.prototype =
Object.assign(new Node(), {\n    type: 'NamespaceValue',\n\n    eval(context) {\n        let i, j, name, rules =
this.value.eval(context);\n        \n        for (i = 0; i < this.lookups.length; i++) {\n            name = this.lookups[i];\n\n
        /**\n            * Eval'd DRs return rulesets.\n
        * Eval'd mixins return rules, so let's make a ruleset if we need it.\n            * We need to do this because of late
parsing of values\n            */\n        if (Array.isArray(rules)) {\n            rules = new Ruleset([new Selector()],
rules);\n        }\n        if (name === "") {\n            rules = rules.lastDeclaration();\n        }\n        else if
(name.charAt(0) === '@') {\n            if (name.charAt(1) === '@') {\n                name = `@${new
Variable(name.substr(1)).eval(context).value}`;\n            }\n            if (rules.variables) {\n                rules =
rules.variable(name);\n            }\n            \n            if (!rules) {\n                throw { type: 'Name',\n
                message: `variable ${name} not found`,\n                filename: this.fileInfo().filename,\n
                index: this.getIndex() }; \n            }\n            else\n            {\n                if (name.substring(0, 2) === '$@') {\n                    name = `${name}`;\n
                }\n                else {\n                    name = name.charAt(0)
=== '$' ? name : `${name}`;\n                }\n                if (rules.properties) {\n                    rules =
rules.property(name);\n                }\n                \n                if (!rules) {\n                    throw { type: 'Name',\n
                message: `property "${name.substr(1)}" not found`,\n                filename: this.fileInfo().filename,\n
                index: this.getIndex() }; \n                }\n                // Properties are an array of values, since a ruleset can have
multiple props.\n                // We pick the last one (the "cascaded" value)\n                rules = rules[rules.length -
1];\n            }\n            \n            if (rules.value) {\n                rules = rules.eval(context).value;\n            }\n
            \n            if (rules.ruleset) {\n                rules = rules.ruleset.eval(context);\n            }\n        }\n        return
rules;\n    }\n});\n\nexport default NamespaceValue;\n", "import Selector from './selector';\nimport Element from
'./element';\nimport Ruleset from './ruleset';\nimport Declaration from './declaration';\nimport DetachedRuleset from
'./detached-ruleset';\nimport Expression from './expression';\nimport contexts from './contexts';\nimport * as utils
from './utils';\n\nconst Definition = function(name, params, rules, condition, variadic, frames, visibilityInfo) {\n
this.name = name || 'anonymous mixin';\n    this.selectors = [new Selector([new Element(null, name, false,
this._index, this._fileInfo)])];\n    this.params = params;\n    this.condition = condition;\n    this.variadic = variadic;\n
    this.arity = params.length;\n    this.rules = rules;\n    this._lookups = {};\n    const optionalParameters = [];\n
    this.required = params.reduce(function
    (count, p) {\n        if (!p.name || (p.name && !p.value)) {\n            return count + 1;\n        }\n        else {\n
            optionalParameters.push(p.name);\n            return count;\n        }\n    }, 0);\n    this.optionalParameters =
optionalParameters;\n    this.frames = frames;\n    this.copyVisibilityInfo(visibilityInfo);\n    this.allowRoot =
true;\n});\n\nDefinition.prototype = Object.assign(new Ruleset(), {\n    type: 'MixinDefinition',\n    evalFirst: true,\n\n    accept(visitor) {\n        if (this.params && this.params.length) {\n            this.params =
visitor.visitArray(this.params);\n        }\n        this.rules = visitor.visitArray(this.rules);\n        if (this.condition) {\n
            this.condition = visitor.visit(this.condition);\n        }\n    },\n\n    evalParams(context, mixinEnv, args,
evaldArguments) {\n        /* jshint boss:true */\n        const frame = new Ruleset(null, null);\n        let varargs;\n

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let arg;\n    const params
= utils.copyArray(this.params);\n    let i;\n    let j;\n    let val;\n    let name;\n    let isNamedFound;\nlet argIndex;\n    let argsLength = 0;\n\n    if (mixinEnv.frames && mixinEnv.frames[0] &&
mixinEnv.frames[0].functionRegistry) {\n        frame.functionRegistry =
mixinEnv.frames[0].functionRegistry.inherit();\n    }\n    mixinEnv = new contexts.Eval(mixinEnv,
[frame].concat(mixinEnv.frames));\n\n    if (args) {\n        args = utils.copyArray(args);\n        argsLength =
args.length;\n\n        for (i = 0; i < argsLength; i++) {\n            arg = args[i];\n            if (name = (arg &&
arg.name)) {\n                isNamedFound = false;\n                for (j = 0; j < params.length; j++) {\n
if (!evaldArguments[j] && name === params[j].name) {\n                    evaldArguments[j] =
arg.value.eval(context);\n                    frame.prependRule(new Declaration(name,
arg.value.eval(context)));\n                    isNamedFound = true;\n                    break;\n                }\n                if (isNamedFound) {\n                    args.splice(i, 1);\n                    i--;\n
continue;\n                } else {\n                    throw { type: 'Runtime', message: `Named argument for
${this.name} ${args[i].name} not found` };
                }\n            }\n            argIndex = 0;\n\n            for (i = 0; i < params.length; i++) {\n                if (evaldArguments[i]) { continue; }\n                arg = args &&
args[argIndex];\n                if (name = params[i].name) {\n                    if (params[i].variadic) {\n                        varargs =
[];\n                        for (j = argIndex; j < argsLength; j++) {\n
varargs.push(args[j].value.eval(context));\n                        }\n
                        frame.prependRule(new Declaration(name, new Expression(varargs).eval(context)));\n                    } else {\n
                        val = arg && arg.value;\n                        if (val) {\n                            // This was a mixin call, pass in a detached
ruleset of it's eval'd rules\n                            if (Array.isArray(val)) {\n                                val = new
DetachedRuleset(new Ruleset("", val));\n                            } else {\n                                val =
val.eval(context);\n                            }\n                        } else if (params[i].value) {\n                            val =
params[i].value.eval(mixinEnv);\n                            frame.resetCache();\n                        } else {\n                            throw {
type: 'Runtime', message: `wrong number of arguments for ${this.name} (${argsLength} for ${this.arity})` };
                        }\n                        frame.prependRule(new Declaration(name, val));\n
                        evaldArguments[i] = val;\n                    }\n                }\n                if (params[i].variadic && args) {\n                    for (j =
argIndex; j < argsLength; j++) {\n                        evaldArguments[j] = args[j].value.eval(context);\n                    }\n
                }\n                argIndex++;\n            }\n            return frame;\n        },\n        makeImportant() {\n            const rules = !this.rules ?
this.rules : this.rules.map(function (r) {\n                if (r.makeImportant) {\n                    return r.makeImportant(true);\n                }
            } else {\n                return r;\n            });\n            const result = new Definition(this.name, this.params,
rules, this.condition, this.variadic, this.frames);\n            return result;\n        },\n        eval(context) {\n            return new
Definition(this.name, this.params, this.rules, this.condition, this.variadic, this.frames ||
utils.copyArray(context.frames));\n        },\n        evalCall(context, args, important) {\n            const _arguments
= [];\n            const mixinFrames = this.frames ? this.frames.concat(context.frames) : context.frames;\n            const
frame = this.evalParams(context, new contexts.Eval(context, mixinFrames), args, _arguments);\n            let rules;\n            let ruleset;\n\n            frame.prependRule(new Declaration('@arguments', new
Expression(_arguments).eval(context)));\n            rules = utils.copyArray(this.rules);\n            ruleset = new
Ruleset(null, rules);\n            ruleset.originalRuleset = this;\n            ruleset = ruleset.eval(new contexts.Eval(context,
[this, frame].concat(mixinFrames)));\n            if (important) {\n                ruleset = ruleset.makeImportant();\n            }\n            return ruleset;\n        },\n        matchCondition(args, context) {\n            if (this.condition && !this.condition.eval(\n
new contexts.Eval(context,\n                [this.evalParams(context, /* the parameter variables */\n                new
contexts.Eval(context, this.frames ? this.frames.concat(context.frames)
: context.frames), args, [])\n            ].concat(this.frames || []) // the parent namespace/mixin frames\n            .concat(context.frames)))) {\n                // the current environment frames\n                return false;\n            }\n            return true;\n        },\n        matchArgs(args, context) {\n            const allArgsCnt = (args && args.length) || 0;\n            let len;\n            const
optionalParameters = this.optionalParameters;\n            const requiredArgsCnt = !args ? 0 : args.reduce(function
(count, p) {\n                if (optionalParameters.indexOf(p.name) < 0) {\n                    return count + 1;\n                } else {\n

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        return count;\n        }\n        }, 0);\n\n        if (!this.variadic) {\n            if (requiredArgsCnt < this.required)\n            {\n                return false;\n            }\n            if (allArgsCnt > this.params.length) {\n                return false;\n            }\n        } else {\n            if (requiredArgsCnt < (this.required\n            - 1)) {\n                return false;\n            }\n            }\n\n            // check patterns\n            len = Math.min(requiredArgsCnt,\n            this.arity);\n\n            for (let i = 0; i < len; i++) {\n                if (!this.params[i].name && !this.params[i].variadic) {\n                    if (args[i].value.eval(context).toCSS() != this.params[i].value.eval(context).toCSS()) {\n                        return\n                        false;\n                    }\n                }\n            }\n            return true;\n        }\n    });\n\n    export default Definition;\n", "import Node\n    from './node';\n    import Selector from './selector';\n    import MixinDefinition from './mixin-definition';\n    import\n    defaultFunc from './functions/default';\n\n    const MixinCall = function(elements, args, index, currentFileInfo,\n    important) {\n        this.selector = new Selector(elements);\n        this.arguments = args || [];\n        this._index = index;\n        this._fileInfo = currentFileInfo;\n        this.important = important;\n        this.allowRoot = true;\n\n        this.setParent(this.selector,\n        this);\n    };\n\n    MixinCall.prototype = Object.assign(new Node(), {\n        type: 'MixinCall',\n\n        accept(visitor) {\n            if (this.selector) {\n                this.selector = visitor.visit(this.selector);\n            }\n            if (this.arguments.length) {\n                this.arguments = visitor.visitArray(this.arguments);\n            }\n        },\n\n        eval(context) {\n            let mixins;\n            let\n            mixin;\n            let mixinPath;\n            const args = [];\n            let arg;\n            let argValue;\n            const rules = [];\n            let\n            match = false;\n            let i;\n            let m;\n            let f;\n            let isRecursive;\n            let isOneFound;\n            const\n            candidates = [];\n            let candidate;\n            const conditionResult = [];\n            let defaultResult;\n            const\n            defFalseEitherCase = -1;\n            const defNone = 0;\n            const defTrue = 1;\n            const defFalse = 2;\n            let\n            count;\n            let originalRuleset;\n            let noArgumentsFilter;\n\n            this.selector\n            = this.selector.eval(context);\n\n            function calcDefGroup(mixin, mixinPath) {\n                let f, p, namespace;\n\n                for (f = 0; f < 2; f++) {\n                    conditionResult[f] = true;\n                    defaultFunc.value(f);\n\n                    for (p\n                    = 0; p < mixinPath.length && conditionResult[f]; p++) {\n                        namespace = mixinPath[p];\n                        if\n                        (namespace.matchCondition)\n                        {\n                            conditionResult[f] = conditionResult[f] &&\n                            namespace.matchCondition(null, context);\n                        }\n                    }\n                    if (mixin.matchCondition) {\n                        conditionResult[f] = conditionResult[f] && mixin.matchCondition(args, context);\n                    }\n                }\n                if (conditionResult[0] || conditionResult[1]) {\n                    if (conditionResult[0] != conditionResult[1]) {\n                        return conditionResult[1] ?\n                        defTrue : defFalse;\n                    }\n                    return defNone;\n                }\n                return defFalseEitherCase;\n            }\n\n            for (i = 0; i <\n            this.arguments.length; i++) {\n                arg = this.arguments[i];\n                argValue = arg.value.eval(context);\n                if (arg.expand && Array.isArray(argValue.value)) {\n                    argValue = argValue.value;\n                    for (m = 0;\n                    m < argValue.length; m++) {\n                        args.push({ value: argValue[m]});\n                    }\n                } else {\n                    args.push({ name: arg.name, value: argValue});\n                }\n            }\n\n            noArgumentsFilter = function(rule)\n            {\n                return rule.matchArgs(null, context);\n            }\n\n            for (i = 0; i < context.frames.length; i++) {\n                if ((mixins =\n                context.frames[i].find(this.selector, null, noArgumentsFilter)).length > 0) {\n                    isOneFound = true;\n\n                    // To make `default()` function independent of definition order we have two \"subpasses\" here.\n                    // At first we evaluate each guard *twice* (with `default() == true` and `default() == false`),\n                    // and\n                    build candidate list with corresponding flags. Then, when we know all possible matches,\n                    // we make a\n                    final decision.\n\n                    for (m = 0; m < mixins.length; m++) {\n                        mixin = mixins[m].rule;\n                        mixinPath = mixins[m].path;\n                        isRecursive = false;\n\n                        for (f = 0; f < context.frames.length;\n                        f++) {\n                            if (!(mixin instanceof MixinDefinition) && mixin === (context.frames[f].originalRuleset ||\n                            context.frames[f])) {\n                                isRecursive = true;\n                                break;\n                            }\n                        }\n                        if (isRecursive) {\n                            continue;\n                        }\n                        if\n                        (mixin.matchArgs(args, context)) {\n                            candidate = { mixin, group:\n                            calcDefGroup(mixin, mixinPath)};\n                            if (candidate.group !== defFalseEitherCase) {\n                                candidates.push(candidate);\n                            }\n                            match = true;\n                        }\n                    }\n\n                    defaultFunc.reset();\n                    count = [0, 0, 0];\n                    for (m = 0; m < candidates.length; m++) {\n                        count[candidates[m].group]++;\n                    }\n                    if (count[defNone] > 0) {\n
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defaultResult = defFalse;\n          } else {\n          defaultResult = defTrue;\n          if
((count[defTrue] + count[defFalse]) > 1) {\n          throw { type: 'Runtime',\n          message:
`Ambiguous use of `default()` found when matching for `>${this.format(args)}\n          index:
this.getIndex(), filename: this.fileInfo().filename };\n
    }\n    }\n    for (m = 0; m < candidates.length; m++) {\n    candidate =
candidates[m].group;\n    if ((candidate === defNone) || (candidate === defaultResult)) {\n
try {\n    mixin = candidates[m].mixin;\n    if (!(mixin instanceof MixinDefinition))
{\n    originalRuleset = mixin.originalRuleset || mixin;\n    mixin = new
MixinDefinition("", [], mixin.rules, null, false, null, originalRuleset.visibilityInfo());\n
mixin.originalRuleset = originalRuleset;\n    }\n    const newRules =
mixin.evalCall(context, args, this.important).rules;\n
this._setVisibilityToReplacement(newRules);\n    Array.prototype.push.apply(rules, newRules);\n
    } catch (e) {\n
    throw { message: e.message, index: this.getIndex(), filename: this.fileInfo().filename, stack: e.stack
};\n    }\n    }\n    }\n    }\n    if (match) {\n    return rules;\n    }\n
    }\n    if (isOneFound) {\n    throw { type: 'Runtime',\n    message: `No matching
definition was found for `>${this.format(args)}\n    index: this.getIndex(), filename:
this.fileInfo().filename };\n    } else {\n    throw { type: 'Name',\n    message:
`>${this.selector.toCSS().trim()} is undefined`,\n    index: this.getIndex(), filename: this.fileInfo().filename
};\n    }\n    },\n    _setVisibilityToReplacement(replacement) {\n    let i, rule;\n    if (this.blocksVisibility())
{\n    for (i = 0; i < replacement.length; i++) {\n    rule = replacement[i];\n
rule.addVisibilityBlock();\n    }\n    }\n    },\n    format(args) {\n    return
`>${this.selector.toCSS().trim()}(${args ? args.map(function (a) {\n    let argValue = ";\n    if (a.name) {\n
argValue += `${a.name}`;\n    }\n    if (a.value.toCSS) {\n    argValue +=
a.value.toCSS();\n    } else {\n    argValue += '??';\n    }\n    return argValue;\n    }).join(',
') : "});\n    }\n    });\n\nexport default MixinCall;\n\n",\n    import Node from './node';\nimport Color from './color';\nimport
AtRule from './atrule';\nimport DetachedRuleset from './detached-ruleset';\nimport Operation from
'./operation';\nimport Dimension from './dimension';\nimport Unit from './unit';\nimport Keyword from
'./keyword';\nimport Variable from './variable';\nimport Property from './property';\nimport Ruleset from
'./ruleset';\nimport Element from './element';\nimport Attribute from './attribute';\nimport
Combinator from './combinator';\nimport Selector from './selector';\nimport Quoted from './quoted';\nimport
Expression from './expression';\nimport Declaration from './declaration';\nimport Call from './call';\nimport URL
from './url';\nimport Import from './import';\nimport Comment from './comment';\nimport Anonymous from
'./anonymous';\nimport Value from './value';\nimport JavaScript from './javascript';\nimport Assignment from
'./assignment';\nimport Condition from './condition';\nimport Paren from './paren';\nimport Media from
'./media';\nimport UnicodeDescriptor from './unicode-descriptor';\nimport Negative from './negative';\nimport
Extend from './extend';\nimport VariableCall from './variable-call';\nimport NamespaceValue from './namespace-
value';\n\n// mixins\nimport MixinCall from './mixin-call';\nimport MixinDefinition from './mixin-
definition';\n\nexport default {\n  Node, Color, AtRule, DetachedRuleset, Operation,\n  Dimension, Unit,
Keyword, Variable, Property,\n  Ruleset, Element, Attribute, Combinator, Selector,\n  Quoted, Expression, Declaration, Call, URL, Import,\n  Comment, Anonymous, Value, JavaScript, Assignment,\n  Condition, Paren, Media, UnicodeDescriptor,
Negative,\n  Extend, VariableCall, NamespaceValue,\n  mixin: {\n    Call: MixinCall,\n    Definition:
MixinDefinition\n  }\n};\n\n",\n    class AbstractFileManager {\n    getPath(filename) {\n    let j =
filename.lastIndexOf('?');\n    if (j > 0) {\n    filename = filename.slice(0, j);\n    }\n    j =
filename.lastIndexOf('/');\n    if (j < 0) {\n    j = filename.lastIndexOf("\\\\");\n    }\n    if (j < 0) {\n
return ";\n    }\n    return filename.slice(0, j + 1);\n    }\n    }\n    tryAppendExtension(path, ext) {\n    return
/(\\.[a-z]*$)|(\\[\\?;.*$)/.test(path) ? path : path + ext;\n    }\n    }\n    tryAppendLessExtension(path) {\n    return

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this.tryAppendExtension(path, '.less');\n  }\n\n  supportsSync()\n  {\n    return false;\n  }\n\n  alwaysMakePathsAbsolute() {\n    return false;\n  }\n\n  isPathAbsolute(filename) {\n    return (/^(?:[a-z-]+:|\\|\\/|\\/)/i).test(filename);\n  }\n\n  // TODO: pull out /\n  replace?\n  join(basePath, laterPath) {\n    if (!basePath) {\n      return laterPath;\n    }\n    return\n    basePath + laterPath;\n  }\n\n  pathDiff(url, baseUrl) {\n    // diff between two paths to create a relative path\n\n    const urlParts = this.extractUrlParts(url);\n    const baseUrlParts = this.extractUrlParts(baseUrl);\n    let\n    i;\n    let max;\n    let urlDirectories;\n    let baseUrlDirectories;\n    let diff = ";\n    if (urlParts.hostPart\n    !== baseUrlParts.hostPart) {\n      return ";\n    }\n    max = Math.max(baseUrlParts.directories.length,\n    urlParts.directories.length);\n    for (i = 0; i < max; i++) {\n      if (baseUrlParts.directories[i] !==\n      urlParts.directories[i])\n      {\n        break;\n      }\n      baseUrlDirectories = baseUrlParts.directories.slice(i);\n      urlDirectories =\n      urlParts.directories.slice(i);\n      for (i = 0; i < baseUrlDirectories.length - 1; i++) {\n        diff += '../';\n      }\n      for (i = 0; i < urlDirectories.length - 1; i++) {\n        diff += `${urlDirectories[i]}`;\n      }\n      return diff;\n    }\n\n    // helper function, not part of API\n    extractUrlParts(url, baseUrl) {\n      // urlParts[1] =\n      protocol://hostname/ OR /\n      // urlParts[2] = / if path relative to host base\n      // urlParts[3] = directories\n      // urlParts[4] = filename\n      // urlParts[5] = parameters\n\n      const urlPartsRegex = /^(?:[a-z-]\n      ]+)?\\V{2}?(?:[^\V{2}]#*\V{2})?((?:[^\V{2}]#*\V{2})*)([^\V{2}]#*?)?$/i;\n\n      const urlParts =\n      url.match(urlPartsRegex);\n      const returner = {};\n      let rawDirectories = [];\n      const directories\n      = [];\n      let i;\n      let baseUrlParts;\n\n      if (!urlParts) {\n        throw new Error(`Could not parse sheet\n      href - '${url}'`);\n      }\n      // Stylesheets in IE don't always return the full path\n      if (baseUrl &&\n      (!urlParts[1] || urlParts[2])) {\n        baseUrlParts = baseUrl.match(urlPartsRegex);\n        if (!baseUrlParts) {\n          throw new Error(`Could not parse page url - '${baseUrl}'`);\n        }\n        urlParts[1] = urlParts[1] ||\n        baseUrlParts[1] || ";\n        if (!urlParts[2]) {\n          urlParts[3] = baseUrlParts[3] + urlParts[3];\n        }\n      }\n\n      if (urlParts[3]) {\n        rawDirectories = urlParts[3].replace(/\\/g, '/').split('/');\n\n        // collapse '..'\n        and skip '.'\n        for (i = 0; i < rawDirectories.length; i++) {\n          if (rawDirectories[i] === '..') {\n            directories.pop();\n          }\n          else\n          if (rawDirectories[i] !== '.') {\n            directories.push(rawDirectories[i]);\n          }\n        }\n\n        returner.hostPart = urlParts[1];\n        returner.directories = directories;\n        returner.rawPath =\n        (urlParts[1] || ") + rawDirectories.join('/');\n        returner.path = (urlParts[1] || ") + directories.join('/');\n        returner.filename = urlParts[4];\n        returner.fileUrl = returner.path + (urlParts[4] || ");\n        returner.url =\n        returner.fileUrl + (urlParts[5] || ");\n        return returner;\n      }\n    }\n\n    export default AbstractFileManager;\n  },\n\n  "import\n  functionRegistry from './functions/function-registry';\n  import LessError from './less-error';\n  \n  class\n  AbstractPluginLoader {\n    constructor() {\n      // Implemented by Node.js plugin loader\n      this.require =\n      function() {\n        return null;\n      }\n    }\n\n    evalPlugin(contents, context, imports, pluginOptions, fileInfo)\n    {\n\n      let loader, registry, pluginObj, localModule, pluginManager, filename, result;\n\n      pluginManager =\n      context.pluginManager;\n      if (fileInfo) {\n        if (typeof fileInfo === 'string') {\n          filename =\n          fileInfo;\n        }\n        else {\n          filename = fileInfo.filename;\n        }\n      }\n      const shortname\n      = (new this.less.FileManager()).extractUrlParts(filename).filename;\n      if (filename) {\n        pluginObj =\n        pluginManager.get(filename);\n      }\n      if (pluginObj) {\n        result = this.trySetOptions(pluginObj,\n        filename, shortname, pluginOptions);\n      }\n      if (result) {\n        return result;\n      }\n      try\n      {\n        if (pluginObj.use) {\n          pluginObj.use.call(this.context, pluginObj);\n        }\n      }\n      catch (e) {\n        e.message = e.message || 'Error\n      during @plugin call';\n        return new LessError(e, imports, filename);\n      }\n\n      return\n      pluginObj;\n    }\n\n    localModule = {\n      exports: {},\n      pluginManager,\n      fileInfo\n    };\n    registry = functionRegistry.create();\n    const registerPlugin = function(obj) {\n      pluginObj = obj;\n    };\n    try {\n      loader = new Function('module', 'require', 'registerPlugin',\n      'functions', 'tree', 'less', 'fileInfo', contents);\n      loader(localModule, this.require(filename), registerPlugin,\n
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registry, this.less.tree, this.less, fileInfo);\n    }\n    catch (e) {\n        return new LessError(e, imports,\nfilename);\n    }\n    if (!pluginObj) {\n        pluginObj = localModule.exports;\n    }\n    pluginObj =\nthis.validatePlugin(pluginObj, filename, shortname);\n    if (pluginObj instanceof LessError) {\n        return pluginObj;\n    }\n    if (pluginObj) {\n        pluginObj.imports = imports;\npluginObj.filename = filename;\n        // For < 3.x (or unspecified minVersion) - setOptions() before install()\n        if (!pluginObj.minVersion || this.compareVersion('3.0.0', pluginObj.minVersion) < 0) {\n            result =\nthis.trySetOptions(pluginObj, filename, shortname, pluginOptions);\n            if (result) {\n                return\nresult;\n            }\n        }\n        // Run on first load\n        pluginManager.addPlugin(pluginObj,\nfileInfo.filename, registry);\n        pluginObj.functions = registry.getLocalFunctions();\n        // Need to call\nsetOptions again because the pluginObj might have functions\n        result = this.trySetOptions(pluginObj,\nfilename, shortname, pluginOptions);\n        if (result) {\n            return result;\n        }\n    }\n    // Run\nevery @plugin\n    call\n    try {\n        if (pluginObj.use) {\n            pluginObj.use.call(this.context, pluginObj);\n        }\n    }\n    catch (e) {\n        e.message = e.message || 'Error during @plugin call';\n        return\nnew LessError(e, imports, filename);\n    }\n    else {\n        return new LessError({ message:\n'Not a valid plugin' }, imports, filename);\n    }\n    return pluginObj;\n}\ntrySetOptions(plugin,\nfilename, name, options) {\n    if (options && !plugin.setOptions) {\n        return new LessError({\nmessage: `Options have been provided but the plugin ${name} does not support any options.`\n});\n    }\n    try {\n        plugin.setOptions && plugin.setOptions(options);\n    }\n    catch (e) {\n        return new\nLessError(e);\n    }\n}\nvalidatePlugin(plugin, filename, name) {\n    if\n(plugin) {\n        // support plugins being a function\n        // so that the plugin can be more usable\nprogrammatically\n        if (typeof plugin === 'function') {\n            plugin = new plugin();\n        }\n    }\n    if (plugin.minVersion) {\n        if (this.compareVersion(plugin.minVersion, this.less.version) < 0) {\n            return new LessError({\n                message: `Plugin ${name} requires version\n${this.versionToString(plugin.minVersion)}\n`);\n        }\n        return plugin;\n    }\n    return null;\n}\ncompareVersion(aVersion, bVersion) {\n    if (typeof aVersion === 'string') {\n        aVersion = aVersion.match(/^(\\d+\\.?.?\\d+)?\\.?(\\d+)?/);\n        aVersion.shift();\n    }\n    for (let i = 0; i\n< aVersion.length; i++) {\n        if (aVersion[i] !== bVersion[i]) {\n            return parseInt(aVersion[i]) >\nparseInt(bVersion[i])\n? -1 : 1;\n        }\n    }\n    return 0;\n}\nversionToString(version) {\n    let versionString = '';\nfor (let i = 0; i < version.length; i++) {\n    versionString += (versionString ? '.' : '') + version[i];\n}\nreturn versionString;\n}\nprintUsage(plugings) {\n    for (let i = 0; i < plugings.length; i++) {\n        const\nplugin = plugings[i];\n        if (plugin.printUsage) {\n            plugin.printUsage();\n        }\n    }\n}\n\nexport default AbstractPluginLoader;\n\n", "import tree from './tree';\n\nconst _visitArgs = { visitDeeper:\ntrue };\nlet _hasIndexed = false;\n\nfunction _noop(node) {\n    return node;\n}\n\nfunction\nindexNodeTypes(parent, ticker) {\n    // add .typeIndex to tree node types for lookup table\n    let key, child;\n    for\n(key in parent) {\n        /* eslint guard-for-in: 0 */\n        child = parent[key];\n        switch (typeof child) {\n            case 'function':\n                // ignore bound functions directly on tree which do not have a prototype\n                // or aren't nodes\n                if (child.prototype && child.prototype.type) {\n                    child.prototype.typeIndex\n= ticker++;\n                }\n                break;\n            case 'object':\n                ticker = indexNodeTypes(child,\nticker);\n                break;\n        }\n    }\n    return ticker;\n}\n\n\nclass Visitor {\n    constructor(implementation) {\n        this._implementation = implementation;\n        this._visitInCache = {};\n        this._visitOutCache = {};\n    }\n    if (!_hasIndexed) {\n        indexNodeTypes(tree, 1);\n        _hasIndexed =\ntrue;\n    }\n}\n\nvisit(node) {\n    if (!node) {\n        return node;\n    }\n    const nodeTypeIndex\n= node.typeIndex;\n    if (!nodeTypeIndex) {\n        // MixinCall args aren't a node type?\n        if (node.value\n&& node.value.typeIndex) {\n            this.visit(node.value);\n        }\n        return node;\n    }\n}\n\nconst impl = this._implementation;\n    let func = this._visitInCache[nodeTypeIndex];\n    let funcOut =\nthis._visitOutCache[nodeTypeIndex];\n    const visitArgs = _visitArgs;\n    let fnName;\n}

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visitArgs.visitDeeper = true;\n\n    if (!func) {\n        fnName = `visit${node.type}`;\n        func =
impl[fnName] || _noop;\n        funcOut = impl[`${fnName}Out`] || _noop;\n
this._visitInCache[nodeTypeIndex] = func;\n        this._visitOutCache[nodeTypeIndex] = funcOut;\n    }\n\n    if (func !== _noop) {\n        const newNode = func.call(impl, node, visitArgs);\n        if (node &&
impl.isReplacing) {\n            node = newNode;\n        }\n        if (visitArgs.visitDeeper && node) {\n
            if (node.length) {\n                for (let i = 0, cnt =
node.length; i < cnt; i++) {\n                    if (node[i].accept) {\n                        node[i].accept(this);\n                    }\n                } else if (node.accept) {\n                    node.accept(this);\n                }\n            }\n            if (funcOut !==
_noop) {\n                funcOut.call(impl, node);\n            }\n            return node;\n        }\n        visitArray(nodes,
nonReplacing) {\n            if (!nodes) {\n                return nodes;\n            }\n            const cnt = nodes.length;\n            let i;\n            // Non-replacing\n            if (nonReplacing || !this._implementation.isReplacing) {\n                for (i = 0; i < cnt; i++)\n            }\n            this.visit(nodes[i]);\n        }\n        return nodes;\n    }\n    // Replacing\n    const out =
[];\n    for (i = 0; i < cnt; i++) {\n        const evald = this.visit(nodes[i]);\n        if (evald === undefined) {\n
            continue;\n        }\n        if (!evald.splice) {\n            out.push(evald);\n        }\n        else if (evald.length) {\n            this.flatten(evald, out);\n        }\n    }\n    return out;\n}\n\nflatten(arr, out) {\n    if (!out) {\n        out = [];\n    }\n    let cnt, i, item, nestedCnt, j, nestedItem;\n\n    for (i = 0, cnt = arr.length; i < cnt; i++) {\n        item = arr[i];\n        if (item === undefined) {\n
            continue;\n        }\n        if (!item.splice) {\n            out.push(item);\n            continue;\n        }\n        for (j = 0, nestedCnt = item.length; j < nestedCnt; j++) {\n            nestedItem = item[j];\n            if (nestedItem
=== undefined) {\n                continue;\n            }\n            if (!nestedItem.splice) {\n
                out.push(nestedItem);\n            }\n            else if (nestedItem.length) {\n                this.flatten(nestedItem, out);\n            }\n        }\n    }\n}\n\n    }\n}\n\n    return out;\n}\n}\n\n\nexport default Visitor;\n", "class ImportSequencer {\n
constructor(onSequencerEmpty) {\n    this.imports = [];\n    this.variableImports = [];\n\n    this._onSequencerEmpty = onSequencerEmpty;\n    this._currentDepth = 0;\n}\n\n    addImport(callback) {\n        const importSequencer = this,\n            importItem = {\n                callback,\n                args: null,\n
                isReady: false\n            };\n        this.imports.push(importItem);\n        return function() {\n            importItem.args =
Array.prototype.slice.call(arguments, 0);\n            importItem.isReady = true;\n            importSequencer.tryRun();\n        }\n    }\n\n    addVariableImport(callback) {\n        this.variableImports.push(callback);\n    }\n\n    tryRun() {\n        this._currentDepth++;\n        try {\n            while (true) {\n                while (this.imports.length > 0) {\n
                    const importItem =
this.imports[0];\n                    if (!importItem.isReady) {\n                        return;\n                    }\n\n                    this.imports = this.imports.slice(1);\n                    importItem.callback.apply(null, importItem.args);\n                }\n                if (this.variableImports.length === 0) {\n                    break;\n                }\n                const variableImport =
this.variableImports[0];\n                this.variableImports = this.variableImports.slice(1);\n                variableImport();\n            }\n        } finally {\n            this._currentDepth--;\n        }\n        if (this._currentDepth
=== 0 && this._onSequencerEmpty) {\n            this._onSequencerEmpty();\n        }\n    }\n}\n\n\nexport default
ImportSequencer;\n", "import contexts from './contexts';\nimport Visitor from './visitor';\nimport ImportSequencer
from './import-sequencer';\nimport * as utils from './utils';\n\nconst ImportVisitor = function(importer, finish)\n{\n    this._visitor = new Visitor(this);\n    this._importer = importer;\n    this._finish = finish;\n    this.context =
new contexts.Eval();\n    this.importCount = 0;\n    this.onceFileDetectionMap = {};\n    this.recursionDetector =
{};\n    this._sequencer = new
ImportSequencer(this._onSequencerEmpty.bind(this));\n}\n\nImportVisitor.prototype = {\n    isReplacing: false,\n
    run: function (root) {\n        try {\n            // process the contents\n            this._visitor.visit(root);\n        }\n        catch (e) {\n            this.error = e;\n        }\n        this.isFinished = true;\n        this._sequencer.tryRun();\n    },\n
    _onSequencerEmpty: function() {\n        if (!this.isFinished) {\n            return;\n        }\n        this._finish(this.error);\n    },\n    visitImport: function (importNode, visitArgs) {\n        const inlineCSS =
importNode.options.inline;\n        if (!importNode.css || inlineCSS) {\n            const context = new

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contexts.Eval(this.context,
  utils.copyArray(this.context.frames));\n      const importParent = context.frames[0];\n\nthis.importCount++;\n      if (importNode.isVariableImport()) {\nthis._sequencer.addVariableImport(this.processImportNode.bind(this, importNode, context, importParent));\n} else {\n      this.processImportNode(importNode, context, importParent);\n    }\n\nvisitArgs.visitDeeper = false;\n  },\n  processImportNode: function(importNode, context, importParent) {\nlet evaldImportNode;\n      const inlineCSS = importNode.options.inline;\n      try {\n          evaldImportNode =\nimportNode.evalForImport(context);\n      } catch (e) {\n          if (!e.filename) { e.index = importNode.getIndex();\ne.filename = importNode.fileInfo().filename; }\n          // attempt to eval properly and treat as css\nimportNode.css = true;\n          // if that fails, this error will\nbe thrown\n          importNode.error = e;\n      }\n      if (evaldImportNode && (!evaldImportNode.css ||\ninlineCSS)) {\n          if (evaldImportNode.options.multiple) {\n              context.importMultiple = true;\n          }\n          // try appending if we haven't determined if it is css or not\n          const tryAppendLessExtension =\nevaldImportNode.css === undefined;\n          for (let i = 0; i < importParent.rules.length; i++) {\n              if\n(importParent.rules[i] === importNode) {\n                  importParent.rules[i] = evaldImportNode;\nbreak;\n              }\n          }\n          const onImported = this.onImported.bind(this, evaldImportNode, context),\nsequencedOnImported = this._sequencer.addImport(onImported);\n\nthis._importer.push(evaldImportNode.getPath(), tryAppendLessExtension, evaldImportNode.fileInfo(),\nevaldImportNode.options, sequencedOnImported);\n      } else\n{\n          this.importCount--;\n          if (this.isFinished) {\n              this._sequencer.tryRun();\n          }\n      },\n      onImported: function (importNode, context, e, root, importedAtRoot, fullPath) {\n          if (e) {\nif (!e.filename) {\n              e.index = importNode.getIndex(); e.filename = importNode.fileInfo().filename;\n}\n          this.error = e;\n      }\n      const importVisitor = this,\n          inlineCSS =\nimportNode.options.inline,\n          isPlugin = importNode.options.isPlugin,\n          isOptional =\nimportNode.options.optional,\n          duplicateImport = importedAtRoot || fullPath in\nimportVisitor.recursionDetector;\n      if (!context.importMultiple) {\n          if (duplicateImport) {\nimportNode.skip = true;\n          } else {\n              importNode.skip = function() {\n                  if (fullPath in\nimportVisitor.onceFileDetectionMap) {\n                      return true;\n                  }\n                  importVisitor.onceFileDetectionMap[fullPath] = true;\n                      return false;\n                  };\n          }\n      }\n      if (!fullPath && isOptional) {\n          importNode.skip =\true;\n      }\n      if (root) {\n          importNode.root = root;\n          importNode.importedFilename =\fullPath;\n      }\n      if (!inlineCSS && !isPlugin && (context.importMultiple || !duplicateImport)) {\nimportVisitor.recursionDetector[fullPath] = true;\n          const oldContext = this.context;\nthis.context = context;\n          try {\n              this._visitor.visit(root);\n          } catch (e) {\nthis.error = e;\n          }\n          this.context = oldContext;\n      }\n      }\n      importVisitor.importCount--;\n      if (importVisitor.isFinished) {\n          importVisitor._sequencer.tryRun();\n      }\n      },\n      visitDeclaration: function (declNode, visitArgs) {\n          if (declNode.value.type ===\n'DetachedRuleset') {\n              this.context.frames.unshift(declNode);\n          } else {\n              visitArgs.visitDeeper =\false;\n          }\n      },\n      visitDeclarationOut: function(declNode) {\n          if (declNode.value.type ===\n'DetachedRuleset') {\n              this.context.frames.shift();\n          }\n      },\n      visitAtRule: function (atRuleNode,\nvisitArgs) {\n          this.context.frames.unshift(atRuleNode);\n      },\n      visitAtRuleOut: function (atRuleNode) {\n          this.context.frames.shift();\n      },\n      visitMixinDefinition: function (mixinDefinitionNode, visitArgs) {\nthis.context.frames.unshift(mixinDefinitionNode);\n      },\n      visitMixinDefinitionOut: function\n(mixinDefinitionNode) {\n          this.context.frames.shift();\n      },\n      visitRuleset: function (rulesetNode, visitArgs)\n{\n          this.context.frames.unshift(rulesetNode);\n      },\n      visitRulesetOut: function (rulesetNode) {\n          this.context.frames.shift();\n      },\n      visitMedia: function\n(mediaNode, visitArgs) {\n          this.context.frames.unshift(mediaNode.rules[0]);\n      },\n      visitMediaOut: function\n(mediaNode) {\n          this.context.frames.shift();\n      }\n};\n\nexport default ImportVisitor;\n", "class

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SetTreeVisibilityVisitor {\n  constructor(visible) {\n    this.visible = visible;\n  }\n\n  run(root) {\n    this.visit(root);\n  }\n\n  visitArray(nodes) {\n    if (!nodes) {\n      return nodes;\n    }\n\n    const cnt = nodes.length;\n    let i;\n    for (i = 0; i < cnt; i++) {\n      this.visit(nodes[i]);\n    }\n\n    return nodes;\n  }\n\n  visit(node) {\n    if (!node) {\n      return node;\n    }\n\n    if (node.constructor === Array) {\n      return this.visitArray(node);\n    }\n\n    if (!node.blocksVisibility || node.blocksVisibility()) {\n      return node;\n    }\n\n    if (this.visible) {\n      node.ensureVisibility();\n    } else {\n      node.ensureInvisibility();\n    }\n\n    node.accept(this);\n    return node;\n  }\n}\n\nexport default SetTreeVisibilityVisitor;";
import tree from './tree';
import Visitor from './visitor';
import logger from './logger';
import * as utils from './utils';

jshint loopfunc:true

class ExtendFinderVisitor {\n  constructor() {\n    this._visitor = new Visitor(this);\n    this.contexts = [];\n    this.allExtendsStack = [[]];\n  }\n\n  run(root) {\n    root = this._visitor.visit(root);\n    root.allExtends = this.allExtendsStack[0];\n    return root;\n  }\n\n  visitDeclaration(declNode, visitArgs) {\n    visitArgs.visitDeeper = false;\n  }\n\n  visitMixinDefinition(mixinDefinitionNode, visitArgs) {\n    visitArgs.visitDeeper = false;\n  }\n\n  visitRuleset(rulesetNode, visitArgs) {\n    if (rulesetNode.root) {\n      return;\n    }\n\n    let i;\n    let j;\n    let extend;\n\n    const allSelectorsExtendList = [];\n    let extendList;\n\n    // get &:extend(.a); rules which apply to all selectors in this ruleset\n    const rules = rulesetNode.rules, ruleCnt = rules ? rules.length : 0;\n    for (i = 0; i < ruleCnt; i++) {\n      if (rulesetNode.rules[i] instanceof tree.Extend) {\n        allSelectorsExtendList.push(rules[i]);\n        rulesetNode.extendOnEveryPath = true;\n      }\n    }\n\n    // now find every selector and apply the extends that apply to all extends\n    // and the ones which apply to an individual extend\n    const paths = rulesetNode.paths;\n    for (i = 0; i < paths.length; i++) {\n      const selectorPath = paths[i], selector = selectorPath[selectorPath.length - 1], selExtendList = selector.extendList;\n      extendList = selExtendList ? utils.copyArray(selExtendList).concat(allSelectorsExtendList) : allSelectorsExtendList;\n\n      if (extendList) {\n        extendList = extendList.map(function(allSelectorsExtend) {\n          return allSelectorsExtend.clone();\n        });\n\n        for (j = 0; j < extendList.length; j++) {\n          this.foundExtends = true;\n          extend = extendList[j];\n          extend.findSelfSelectors(selectorPath);\n          extend.ruleset = rulesetNode;\n          if (j === 0) {\n            extend.firstExtendOnThisSelectorPath = true;\n          }\n          this.allExtendsStack[this.allExtendsStack.length - 1].push(extend);\n        }\n      }\n\n      this.contexts.push(rulesetNode.selectors);\n    }\n\n    visitRulesetOut(rulesetNode) {\n      if (!rulesetNode.root) {\n        this.contexts.length = this.contexts.length - 1;\n      }\n    }\n\n    visitMedia(mediaNode, visitArgs) {\n      mediaNode.allExtends = [];\n      this.allExtendsStack.push(mediaNode.allExtends);\n    }\n\n    visitMediaOut(mediaNode) {\n      this.allExtendsStack.length = this.allExtendsStack.length - 1;\n    }\n\n    visitAtRule(atRuleNode, visitArgs) {\n      atRuleNode.allExtends = [];\n      this.allExtendsStack.push(atRuleNode.allExtends);\n    }\n\n    visitAtRuleOut(atRuleNode) {\n      this.allExtendsStack.length = this.allExtendsStack.length - 1;\n    }\n  }\n}\n\nclass ProcessExtendsVisitor {\n  constructor() {\n    this._visitor = new Visitor(this);\n  }\n\n  run(root) {\n    const extendFinder = new ExtendFinderVisitor();\n    this.extendIndices = {};\n    extendFinder.run(root);\n\n    if (!extendFinder.foundExtends) {\n      return root;\n    }\n\n    root.allExtends = root.allExtends.concat(this.doExtendChaining(root.allExtends, root.allExtends));\n    this.allExtendsStack = [root.allExtends];\n\n    const newRoot = this._visitor.visit(root);\n\n    this.checkExtendsForNonMatched(root.allExtends);\n    return newRoot;\n  }\n\n  checkExtendsForNonMatched(extendList) {\n    const indices = this.extendIndices;\n    extendList.filter(function(extend) {\n      return !extend.hasFoundMatches && extend.parent_ids.length === 1;\n    }).forEach(function(extend) {\n      let selector = '_unknown_';\n      try {\n        selector = extend.selector.toCSS({});\n      }\n      catch (_) {} \n\n      if (!indices[`${extend.index} ${selector}`]) {\n        indices[`${extend.index} ${selector}`] = true;\n        logger.warn(`extend '${selector}' has no matches`);\n      }\n    });\n  }\n\n  doExtendChaining(extendsList, extendsListTarget, iterationCount) {\n    // chaining is different from normal extension.. if we extend an extend then we are not just copying,

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altering\n    // and pasting the selector we would do normally,
but we are also adding an extend with the same target selector\n    // this means this new extend can then go and
alter other extends\n    //\n    // this method deals with all the chaining work - without it, extend is flat and
doesn't work on other extend selectors\n    // this is also the most expensive.. and a match on one selector can
cause an extension of a selector we had already\n    // processed if we look at each selector at a time, as is done in
visitRuleset\n\n    let extendIndex;\n\n    let targetExtendIndex;\n    let matches;\n    const extendsToAdd =
[];\n    let newSelector;\n    const extendVisitor = this;\n    let selectorPath;\n    let extend;\n    let
targetExtend;\n    let newExtend;\n\n    iterationCount = iterationCount || 0;\n\n    // loop through comparing
every extend with every target extend.\n    // a target extend is the one on the ruleset we are looking at
copy/edit/pasting in place\n
    // e.g. .a:extend(b) {} and .b:extend(c) {} then the first extend extends the second one\n    // and the second
is the target.\n    // the separation into two lists allows us to process a subset of chains with a bigger set, as is the\n
    // case when processing media queries\n    for (extendIndex = 0; extendIndex < extendsList.length;
extendIndex++) {\n        for (targetExtendIndex = 0; targetExtendIndex < extendsListTarget.length;
targetExtendIndex++) {\n            extend = extendsList[extendIndex];\n            targetExtend =
extendsListTarget[targetExtendIndex];\n            // look for circular references\n            if (
extend.parent_ids.indexOf( targetExtend.object_id ) >= 0 ) { continue; }\n\n            // find a match in the target
extends self selector (the bit before :extend)\n            selectorPath = [targetExtend.selfSelectors[0]];\n
matches = extendVisitor.findMatch(extend, selectorPath);\n\n            if (matches.length) {\n                extend.hasFoundMatches = true;\n\n                // we found a match,
so for each self selector..\n                extend.selfSelectors.forEach(function(selfSelector) {\n                    const
info = targetExtend.visibilityInfo();\n\n                    // process the extend as usual\n                    newSelector =
extendVisitor.extendSelector(matches, selectorPath, selfSelector, extend.isVisible());\n\n                    // but now
we create a new extend from it\n                    newExtend = new(tree.Extend)(targetExtend.selector,
targetExtend.option, 0, targetExtend.fileInfo(), info);\n\n                    newExtend.selfSelectors = newSelector;\n\n
                    // add the extend onto the list of extends for that selector\n                    newSelector[newSelector.length
- 1].extendList = [newExtend];\n\n                    // record that we need to add it.\n                    extendsToAdd.push(newExtend);\n\n                    newExtend.ruleset = targetExtend.ruleset;\n\n
                    // remember its parents for circular references\n                    newExtend.parent_ids =
newExtend.parent_ids.concat(targetExtend.parent_ids, extend.parent_ids);\n\n                    // only process the
selector once.. if we have :extend(.a,b) then multiple\n                    // extends will look at the same selector path,
so when extending\n                    // we know that any others will be duplicates in terms of what is added to the
css\n                    if (targetExtend.firstExtendOnThisSelectorPath) {\n
newExtend.firstExtendOnThisSelectorPath = true;\n
targetExtend.ruleset.paths.push(newSelector);\n\n                    }\n\n                    });\n\n                    }\n\n                    }\n\n
}\n\n    if (extendsToAdd.length) {\n        // try to detect
circular references to stop a stack overflow.\n        // may no longer be needed.\n        this.extendChainCount++;\n        if (iterationCount > 100) {\n            let selectorOne = '{unable to calculate}';\n
            let selectorTwo = '{unable to calculate}';\n            try {\n                selectorOne =
extendsToAdd[0].selfSelectors[0].toCSS();\n\n                selectorTwo = extendsToAdd[0].selector.toCSS();\n
            }\n            catch (e) {\n                throw { message: `extend circular reference detected. One of the circular
extends is currently:${selectorOne}:extend(${selectorTwo})`};\n\n            }\n\n            // now process the new extends
on the existing rules so that we can handle a extending b extending c extending\n            // d extending e..\n            return extendsToAdd.concat(extendVisitor.doExtendChaining(extendsToAdd, extendsListTarget, iterationCount +
1));\n        } else {\n            return
extendsToAdd;\n        }\n    }\n\n    visitDeclaration(ruleNode, visitArgs) {\n        visitArgs.visitDeeper = false;\n
}\n\n    visitMixinDefinition(mixinDefinitionNode, visitArgs) {\n        visitArgs.visitDeeper = false;\n    }\n\n    visitSelector(selectorNode, visitArgs) {\n        visitArgs.visitDeeper = false;\n    }\n\n    visitRuleset(rulesetNode,

```

```

visitArgs) {\n    if (rulesetNode.root) {\n        return;\n    }\n    let matches;\n    let pathIndex;\n    let
extendIndex;\n    const allExtends = this.allExtendsStack[this.allExtendsStack.length - 1];\n    const
selectorsToAdd = [];\n    const extendVisitor = this;\n    let selectorPath;\n\n    // look at each selector path in
the ruleset, find any extend matches and then copy, find and replace\n\n    for (extendIndex = 0; extendIndex <
allExtends.length; extendIndex++) {\n        for (pathIndex = 0; pathIndex < rulesetNode.paths.length;
pathIndex++) {\n            selectorPath
= rulesetNode.paths[pathIndex];\n\n            // extending extends happens initially, before the main pass\n
if (rulesetNode.extendOnEveryPath) { continue; }\n            const extendList = selectorPath[selectorPath.length -
1].extendList;\n            if (extendList && extendList.length) { continue; }\n\n            matches =
this.findMatch(allExtends[extendIndex], selectorPath);\n\n            if (matches.length) {\n
allExtends[extendIndex].hasFoundMatches = true;\n\n
allExtends[extendIndex].selfSelectors.forEach(function(selfSelector) {\n                let extendedSelectors;\n
                extendedSelectors = extendVisitor.extendSelector(matches, selectorPath, selfSelector,
allExtends[extendIndex].isVisible());\n                selectorsToAdd.push(extendedSelectors);\n            });\n
        }\n    }\n\n    rulesetNode.paths = rulesetNode.paths.concat(selectorsToAdd);\n
}\n\n    findMatch(extend, haystackSelectorPath) {\n        /\n        // look through the haystack selector path to try
and find the needle - extend.selector\n        // returns an array of selector matches that can then be replaced\n        /\n
        let haystackSelectorIndex;\n        let haystackSelector;\n        let haystackElementIndex;\n        let
haystackElement;\n        let targetCombinator;\n        let i;\n        const extendVisitor = this;\n        const
needleElements = extend.selector.elements;\n        const potentialMatches = [];\n        let potentialMatch;\n        const
matches = [];\n\n        // loop through the haystack elements\n        for (haystackSelectorIndex = 0;
haystackSelectorIndex < haystackSelectorPath.length; haystackSelectorIndex++) {\n            haystackSelector =
haystackSelectorPath[haystackSelectorIndex];\n\n            for (haystackElementIndex = 0; haystackElementIndex
< haystackSelector.elements.length;
haystackElementIndex++) {\n                haystackElement =
haystackSelector.elements[haystackElementIndex];\n\n                // if we allow elements before our match we can
add a potential match every time. otherwise only at the first element.\n                if (extend.allowBefore ||
(haystackSelectorIndex === 0 && haystackElementIndex === 0)) {\n
                    potentialMatches.push({pathIndex: haystackSelectorIndex, index: haystackElementIndex, matched: 0,\n
                    initialCombinator: haystackElement.combinator});\n                }\n\n                for (i = 0; i <
potentialMatches.length; i++) {\n                    potentialMatch = potentialMatches[i];\n\n                    // selectors add
\" \" onto the first element. When we use & it joins the selectors together, but if we don't\n                    // then each
selector in haystackSelectorPath has a space before it added in the toCSS phase. so we need to\n                    // work
out what the resulting combinator will be\n                    targetCombinator = haystackElement.combinator.value;\n
                    if (targetCombinator === \" && haystackElementIndex === 0) {\n                        targetCombinator = ' ';\n
                    }\n\n                    // if we don't match, null our match to indicate failure\n                    if
(!extendVisitor.isElementValuesEqual(needleElements[potentialMatch.matched].value, haystackElement.value) ||\n
                    (potentialMatch.matched > 0 && needleElements[potentialMatch.matched].combinator.value !==
targetCombinator)) {\n                        potentialMatch = null;\n                    } else {\n
                        potentialMatch.matched++;\n                    }\n\n                    // if we are still valid and have finished, test whether we
have elements after and whether these are allowed\n                    if (potentialMatch) {\n
                        potentialMatch.finished
= potentialMatch.matched === needleElements.length;\n\n                        if (potentialMatch.finished &&\n
                        (!extend.allowAfter &&\n
                        (haystackElementIndex + 1 <
haystackSelector.elements.length || haystackSelectorIndex + 1 < haystackSelectorPath.length))) {\n
                            potentialMatch = null;\n                        }\n\n                        // if null we remove, if not, we are still valid,
so either push as a valid match or continue\n                        if (potentialMatch) {\n                            if
(potentialMatch.finished) {\n                                potentialMatch.length = needleElements.length;\n
                            }\n
                        }\n
                    }\n
                }\n
            }\n
        }\n
    }\n
}

```



```

potentialMatch.endPathIndex = haystackSelectorIndex;\n
hackstackElementIndex + 1; // index after end of match\n
allow matches to
overlap, so start matching again\n
matches.push(potentialMatch);\n
}
else {\n
potentialMatches.splice(i, 1);\n
i--;\n
}\n
}\n
return matches;\n
}\n
isElementValuesEqual(elementValue1, elementValue2) {\n
if (typeof
elementValue1 === 'string' || typeof elementValue2 === 'string') {\n
return elementValue1 ===
elementValue2;\n
}\n
if (elementValue1 instanceof tree.Attribute) {\n
if (elementValue1.op !==
elementValue2.op || elementValue1.key !== elementValue2.key) {\n
return false;\n
}\n
if
(!elementValue1.value || !elementValue2.value) {\n
if (elementValue1.value || elementValue2.value) {\n
return false;\n
}\n
return true;\n
}\n
elementValue1
= elementValue1.value.value || elementValue1.value;\n
elementValue2 = elementValue2.value.value ||
elementValue2.value;\n
return elementValue1 === elementValue2;\n
}\n
elementValue1 =
elementValue1.value;\n
elementValue2 = elementValue2.value;\n
if (elementValue1 instanceof
tree.Selector) {\n
if (!(elementValue2 instanceof tree.Selector) || elementValue1.elements.length !==
elementValue2.elements.length) {\n
return false;\n
}\n
for (let i = 0; i <
elementValue1.elements.length; i++) {\n
if (elementValue1.elements[i].combinator.value !==
elementValue2.elements[i].combinator.value) {\n
if (i !== 0 ||
(elementValue1.elements[i].combinator.value || ' ') !== (elementValue2.elements[i].combinator.value || ' ')) {\n
return false;\n
}\n
}\n
if
(!this.isElementValuesEqual(elementValue1.elements[i].value,
elementValue2.elements[i].value)) {\n
return false;\n
}\n
}\n
return true;\n
}\n
return false;\n
}\n
}\n
extendSelector(matches, selectorPath, replacementSelector, isVisible) {\n
//
for a set of matches, replace each match with the replacement selector\n
let currentSelectorPathIndex = 0,
currentSelectorPathElementIndex = 0, path = [], matchIndex, selector, firstElement, match, newElements;\n
for (matchIndex = 0; matchIndex < matches.length; matchIndex++) {\n
match = matches[matchIndex];\n
selector = selectorPath[match.pathIndex];\n
firstElement = new tree.Element(\n
match.initialCombinator,\n
replacementSelector.elements[0].value,\n
replacementSelector.elements[0].isVariable,\n
replacementSelector.elements[0].getIndex(),\n
replacementSelector.elements[0].fileInfo()\n
);\n
if (match.pathIndex > currentSelectorPathIndex && currentSelectorPathElementIndex > 0) {\n
path[path.length - 1].elements = path[path.length - 1]\n
.elements.concat(selectorPath[currentSelectorPathIndex].elements.slice(currentSelectorPathElementIndex));\n
currentSelectorPathElementIndex = 0;\n
currentSelectorPathIndex++;}\n
}\n
newElements = selector.elements\n
.slice(currentSelectorPathElementIndex, match.index)\n
.concat([firstElement])\n
.concat(replacementSelector.elements.slice(1));\n
if
(currentSelectorPathIndex === match.pathIndex && matchIndex > 0) {\n
path[path.length - 1].elements
=\n
path[path.length - 1].elements.concat(newElements);\n
} else {\n
path =
path.concat(selectorPath.slice(currentSelectorPathIndex, match.pathIndex));\n
path.push(new tree.Selector(\n
newElements\n
));\n
}\n
currentSelectorPathIndex = match.endPathIndex;\n
currentSelectorPathElementIndex =
match.endPathElementIndex;\n
if (currentSelectorPathElementIndex >=
selectorPath[currentSelectorPathIndex].elements.length) {\n
currentSelectorPathElementIndex = 0;\n
currentSelectorPathIndex++;}\n
}\n
}\n
if (currentSelectorPathIndex < selectorPath.length &&
currentSelectorPathElementIndex > 0) {\n
path[path.length - 1].elements = path[path.length - 1]\n
.elements.concat(selectorPath[currentSelectorPathIndex].elements.slice(currentSelectorPathElementIndex));\n
currentSelectorPathIndex++;}\n
}\n
path = path.concat(selectorPath.slice(currentSelectorPathIndex,
selectorPath.length));\n
path = path.map(function (currentValue) {\n
// we can re-use

```

```

elements here, because the visibility property matters only for selectors
const derived =
currentValue.createDerived(currentValue.elements);
if (isVisible) {
    derived.ensureVisibility();
} else {
    derived.ensureInvisibility();
}
return derived;
}
return
path;
}
visitMedia(mediaNode, visitArgs) {
    let newAllExtends =
mediaNode.allExtends.concat(this.allExtendsStack[this.allExtendsStack.length - 1]);
newAllExtends =
newAllExtends.concat(this.doExtendChaining(newAllExtends, mediaNode.allExtends));
this.allExtendsStack.push(newAllExtends);
}
visitMediaOut(mediaNode) {
    const lastIndex =
this.allExtendsStack.length - 1;
this.allExtendsStack.length = lastIndex;
}
visitAtRule(atRuleNode,
visitArgs) {
    let newAllExtends =
atRuleNode.allExtends.concat(this.allExtendsStack[this.allExtendsStack.length
- 1]);
newAllExtends = newAllExtends.concat(this.doExtendChaining(newAllExtends,
atRuleNode.allExtends));
this.allExtendsStack.push(newAllExtends);
}
visitAtRuleOut(atRuleNode)
{
    const lastIndex = this.allExtendsStack.length - 1;
    this.allExtendsStack.length = lastIndex;
}
}
export default ProcessExtendsVisitor;
import Visitor from './visitor';
class JoinSelectorVisitor {
    constructor() {
        this.contexts = [];
        this._visitor = new Visitor(this);
    }
    run(root) {
        return
this._visitor.visit(root);
}
visitDeclaration(declNode, visitArgs) {
    visitArgs.visitDeeper = false;
}
visitMixinDefinition(mixinDefinitionNode, visitArgs) {
    visitArgs.visitDeeper = false;
}
visitRuleset(rulesetNode, visitArgs) {
    const context = this.contexts[this.contexts.length - 1];
    const paths
= [];
    let selectors;
    this.contexts.push(paths);
    if (!rulesetNode.root) {
        selectors = rulesetNode.selectors;
        if (selectors) {
            selectors
= selectors.filter(function(selector) { return selector.getIsOutput(); });
            rulesetNode.selectors =
selectors.length ? selectors : (selectors = null);
            if (selectors) {
                rulesetNode.joinSelectors(paths, context,
selectors);
            }
            if (!selectors) {
                rulesetNode.rules = null;
                rulesetNode.paths = paths;
            }
}
visitRulesetOut(rulesetNode) {
    this.contexts.length = this.contexts.length - 1;
}
visitMedia(mediaNode, visitArgs) {
    const context = this.contexts[this.contexts.length - 1];
mediaNode.rules[0].root = (context.length === 0 || context[0].multiMedia);
}
visitAtRule(atRuleNode,
visitArgs) {
    const context = this.contexts[this.contexts.length - 1];
    if (atRuleNode.rules &&
atRuleNode.rules.length)
{
        atRuleNode.rules[0].root = (atRuleNode.isRooted || context.length === 0 || null);
    }
}
export default JoinSelectorVisitor;
import tree from './tree';
import Visitor from './visitor';
class CSSVisitorUtils {
    constructor(context) {
        this._visitor = new Visitor(this);
        this._context = context;
    }
    containsSilentNonBlockedChild(bodyRules) {
        let rule;
        if (!bodyRules) {
            return false;
        }
        for (let r = 0; r < bodyRules.length; r++) {
            rule = bodyRules[r];
            if (rule.isSilent &&
rule.isSilent(this._context) && !rule.blocksVisibility()) {
                // the atrule contains something that was
referenced (likely by extend)
                // therefore it needs to be shown in output too
                return true;
            }
        }
        return false;
    }
    keepOnlyVisibleChilds(owner) {
        if (owner
&& owner.rules) {
            owner.rules = owner.rules.filter(thing => thing.isVisible());
        }
    }
    isEmpty(owner) {
        return (owner && owner.rules)
? (owner.rules.length === 0) : true;
    }
    hasVisibleSelector(rulesetNode) {
        return (rulesetNode && rulesetNode.paths)
?
(rulesetNode.paths.length > 0) : false;
    }
    resolveVisibility(node, originalRules) {
        if
(!node.blocksVisibility()) {
            if (this.isEmpty(node) &&
!this.containsSilentNonBlockedChild(originalRules)) {
                return ;
            }
            return node;
        }
        const compiledRulesBody = node.rules[0];
        this.keepOnlyVisibleChilds(compiledRulesBody);
        if (this.isEmpty(compiledRulesBody)) {
            return ;
        }
        node.ensureVisibility();
        node.removeVisibilityBlock();
        return node;
    }
    isVisibleRuleset(rulesetNode) {
        if
(rulesetNode.firstRoot)
{
            return true;
        }
        if (this.isEmpty(rulesetNode)) {
            return false;
        }
        if
(!rulesetNode.root && !this.hasVisibleSelector(rulesetNode)) {
            return false;
        }
        return true;
    }
}

```

```

}\n\nconst ToCSSVisitor = function(context) {\n  this._visitor = new Visitor(this);\n  this._context = context;\n  this.utils = new CSSVisitorUtils(context);\n};\n\nToCSSVisitor.prototype = {\n  isReplacing: true,\n  run:\n  function (root) {\n    return this._visitor.visit(root);\n  },\n  visitDeclaration: function (declNode, visitArgs)\n  {\n    if (declNode.blocksVisibility() || declNode.variable) {\n      return;\n    }\n    return declNode;\n  },\n  visitMixinDefinition: function (mixinNode, visitArgs) {\n    // mixin definitions do not get eval'd - this\n    means they keep state\n    // so we have to clear that state here so it isn't used if toCSS is called\n    twice\n    mixinNode.frames = [];\n  },\n  visitExtend: function (extendNode, visitArgs) {\n  },\n  visitComment: function (commentNode, visitArgs) {\n    if (commentNode.blocksVisibility() ||\n    commentNode.isSilent(this._context)) {\n      return;\n    }\n    return commentNode;\n  },\n  visitMedia: function(mediaNode, visitArgs) {\n    const originalRules = mediaNode.rules[0].rules;\n    mediaNode.accept(this._visitor);\n    visitArgs.visitDeeper = false;\n    return\n    this.utils.resolveVisibility(mediaNode, originalRules);\n  },\n  visitImport: function (importNode, visitArgs) {\n    if (importNode.blocksVisibility()) {\n      return;\n    }\n    return importNode;\n  },\n  visitAtRule:\n  function(atRuleNode, visitArgs) {\n    if (atRuleNode.rules && atRuleNode.rules.length) {\n      return\n      this.visitAtRuleWithBody(atRuleNode, visitArgs);\n    } else {\n      return\n      this.visitAtRuleWithoutBody(atRuleNode,\n      visitArgs);\n    }\n  },\n  visitAnonymous: function(anonymousNode, visitArgs) {\n    if\n    (!anonymousNode.blocksVisibility()) {\n      anonymousNode.accept(this._visitor);\n      return\n      anonymousNode;\n    }\n  },\n  visitAtRuleWithBody: function(atRuleNode, visitArgs) {\n    // if there is\n    only one nested ruleset and that one has no path, then it is\n    // just fake ruleset\n    function\n    hasFakeRuleset(atRuleNode) {\n      const bodyRules = atRuleNode.rules;\n      return bodyRules.length ===\n      1 && (!bodyRules[0].paths || bodyRules[0].paths.length === 0);\n    }\n    function\n    getBodyRules(atRuleNode)\n    {\n      const nodeRules = atRuleNode.rules;\n      if (hasFakeRuleset(atRuleNode)) {\n        return\n        nodeRules[0].rules;\n      }\n      return nodeRules;\n    }\n    // it is still true that it is only one ruleset\n    in array\n    // this is last such\n    moment\n    // process childs\n    const originalRules = getBodyRules(atRuleNode);\n    atRuleNode.accept(this._visitor);\n    visitArgs.visitDeeper = false;\n    if (!this.utils.isEmpty(atRuleNode))\n    {\n      this._mergeRules(atRuleNode.rules[0].rules);\n    }\n    return\n    this.utils.resolveVisibility(atRuleNode, originalRules);\n  },\n  visitAtRuleWithoutBody: function(atRuleNode,\n  visitArgs) {\n    if (atRuleNode.blocksVisibility()) {\n      return;\n    }\n    if (atRuleNode.name ===\n    '@charset') {\n      // Only output the debug info together with subsequent @charset definitions\n      // a\n      comment (or @media statement) before the actual @charset atrule would\n      // be considered illegal css as it\n      has to be on the first line\n      if (this.charset) {\n        if (atRuleNode.debugInfo) {\n          const\n          comment = new tree.Comment(`/* ${atRuleNode.toCSS(this._context).replace(/\\n/g,\n          ")}`);\n          comment.debugInfo = atRuleNode.debugInfo;\n          return\n          this._visitor.visit(comment);\n        }\n        return;\n      }\n      this.charset = true;\n    }\n    return atRuleNode;\n  },\n  checkValidNodes: function(rules, isRoot) {\n    if (!rules) {\n      return;\n    }\n    for (let i = 0; i < rules.length; i++) {\n      const ruleNode = rules[i];\n      if (isRoot && ruleNode\n      instanceof tree.Declaration && !ruleNode.variable) {\n        throw { message: 'Properties must be inside\n        selector blocks. They cannot be in the root',\n        index: ruleNode.getIndex(), filename: ruleNode.fileInfo()\n        && ruleNode.fileInfo().filename};\n      }\n      if (ruleNode instanceof tree.Call) {\n        throw {\n        message: `Function '${ruleNode.name}' did not return a root node`,\n        index: ruleNode.getIndex(),\n        filename:\n        ruleNode.fileInfo() && ruleNode.fileInfo().filename};\n      }\n      if (ruleNode.type &&\n      !ruleNode.allowRoot) {\n        throw { message: `${ruleNode.type} node returned by a function is not valid\n        here`,\n        index: ruleNode.getIndex(), filename: ruleNode.fileInfo() && ruleNode.fileInfo().filename};\n      }\n    }\n  },\n  visitRuleset: function (rulesetNode, visitArgs) {\n    // at this point rulesets are nested\n    into each other\n    let rule;\n    const rulesets = [];\n    this.checkValidNodes(rulesetNode.rules,\n
```

```

rulesetNode.firstRoot);
    if (!rulesetNode.root) { // remove invisible paths
    this._compileRulesetPaths(rulesetNode); // remove rulesets from this ruleset body and compile them
    separately
    const nodeRules = rulesetNode.rules; let nodeRuleCnt = nodeRules ?
    nodeRules.length : 0;
    for (let i = 0; i < nodeRuleCnt;
    ) {
    rule = nodeRules[i];
    if (rule && rule.rules) { // visit because we are moving
    them out from being a child
    rulesets.push(this._visitor.visit(rule));
    nodeRules.splice(i,
    1);
    nodeRuleCnt--;
    continue;
    }
    i++;
    } // accept
    the visitor to remove rules and refactor itself
    // then we can decide now whether we want it or not
    // compile body
    if (nodeRuleCnt > 0) {
    rulesetNode.accept(this._visitor);
    } else {
    rulesetNode.rules = null;
    }
    visitArgs.visitDeeper = false;
    } else { // if (!
    rulesetNode.root) {
    rulesetNode.accept(this._visitor);
    visitArgs.visitDeeper = false;
    }
    if (rulesetNode.rules) {
    this._mergeRules(rulesetNode.rules);
    this._removeDuplicateRules(rulesetNode.rules);
    } // now decide whether we keep the ruleset
    if (this.utils.isVisibleRuleset(rulesetNode)) {
    rulesetNode.ensureVisibility();
    rulesets.splice(0,
    0, rulesetNode);
    }
    if (rulesets.length === 1) {
    return rulesets[0];
    }
    return
    rulesets;
    },
    _compileRulesetPaths: function(rulesetNode) {
    if (rulesetNode.paths) {
    rulesetNode.paths = rulesetNode.paths
    .filter(p => {
    let i;
    if
    (p[0].elements[0].combinator.value === ' ') {
    p[0].elements[0].combinator =
    new(tree.Combinator)('');
    }
    for (i = 0; i < p.length; i++) {
    if
    (p[i].isVisible() && p[i].getIsOutput()) {
    return true;
    }
    }
    return false;
    });
    },
    _removeDuplicateRules: function(rules) {
    if
    (!rules) {
    return;
    }
    // remove duplicates
    const ruleCache = {};
    let ruleList;
    let rule;
    let i;
    for (i = rules.length - 1; i >= 0; i--) {
    rule = rules[i];
    if (rule instanceof
    tree.Declaration) {
    if (!ruleCache[rule.name]) {
    ruleCache[rule.name] = rule;
    }
    else {
    ruleList = ruleCache[rule.name];
    if (ruleList instanceof tree.Declaration) {
    ruleList = ruleCache[rule.name] = [ruleCache[rule.name].toCSS(this._context)];
    }
    }
    const ruleCSS = rule.toCSS(this._context);
    if (ruleList.indexOf(ruleCSS) !== -1) {
    rules.splice(i, 1);
    }
    }
    }
    ruleList.push(ruleCSS);
    }
    },
    _mergeRules:
    function(rules) {
    if (!rules) {
    return;
    }
    const groups = {};
    const groupsArr =
    [];
    for (let i = 0; i < rules.length; i++) {
    const rule = rules[i];
    if (rule.merge) {
    const key = rule.name;
    groups[key] ? rules.splice(i--, 1) :
    groupsArr.push(groups[key] =
    []);
    groups[key].push(rule);
    }
    }
    groupsArr.forEach(group => {
    if
    (group.length > 0) {
    const result = group[0];
    let space = [];
    const comma = [new
    tree.Expression(space)];
    group.forEach(rule => {
    if ((rule.merge === '+') && (space.length
    > 0)) {
    comma.push(new tree.Expression(space = []));
    }
    space.push(rule.value);
    result.important = result.important ||
    rule.important;
    });
    result.value = new tree.Value(comma);
    }
    });
    }
    }
    export default ToCSSVisitor;
    }, "import Visitor from './visitor';
    import ImportVisitor from './import-
    visitor';
    import MarkVisibleSelectorsVisitor from './set-tree-visibility-visitor';
    import ExtendVisitor from
    './extend-visitor';
    import JoinSelectorVisitor from './join-selector-visitor';
    import ToCSSVisitor from './to-css-
    visitor';
    export default {
    Visitor,
    ImportVisitor,
    MarkVisibleSelectorsVisitor,
    ExtendVisitor,
    JoinSelectorVisitor,
    ToCSSVisitor
    };
    }, "import chunker from './chunker';
    export default () => {
    let //
    Less input string
    input;
    let // current chunk
    j;
    const // holds state for backtracking
    saveStack = [];
    let // furthest
    index the parser has gone to
    furthest;
    let // if this is furthest we got to, this is the probably cause
    furthestPossibleErrorMessage;
    let // chunkified input
    chunks;
    let // current chunk
    current;
    let // index of current chunk, in `input`
    currentPos;
    const parserInput = {};
    const

```

```

CHARCODE_SPACE = 32;\n  const CHARCODE_TAB = 9;\n  const CHARCODE_LF = 10;\n  const
CHARCODE_CR = 13;\n  const CHARCODE_PLUS = 43;\n  const CHARCODE_COMMA = 44;\n  const
CHARCODE_FORWARD_SLASH = 47;\n  const CHARCODE_9 = 57;\n\n  function skipWhitespace(length)
{\n    const oldi = parserInput.i;\n    const oldj = j;\n    const curr = parserInput.i - currentPos;\n    const
endIndex = parserInput.i + current.length - curr;\n    const mem = (parserInput.i += length);\n    const inp =
input;\n    let c;\n    let nextChar;\n    let comment;\n\n    for (; parserInput.i < endIndex;\n
parserInput.i++) {\n      c = inp.charCodeAt(parserInput.i);\n      if (parserInput.autoCommentAbsorb &&
c === CHARCODE_FORWARD_SLASH) {\n        nextChar = inp.charAt(parserInput.i + 1);\n        if
(nextChar === '/') {\n          comment = {index: parserInput.i, isLineComment: true};\n          let
nextNewLine = inp.indexOf('\n', parserInput.i + 2);\n          if (nextNewLine < 0) {\n
nextNewLine = endIndex;\n          }\n          parserInput.i = nextNewLine;\n          comment.text =
inp.substr(comment.index, parserInput.i - comment.index);\n
parserInput.commentStore.push(comment);\n          continue;\n        } else if (nextChar === '*') {\n
const nextStarSlash = inp.indexOf('*/', parserInput.i + 2);\n          if (nextStarSlash >= 0) {\n
comment = {\n
      index: parserInput.i,\n          text: inp.substr(parserInput.i, nextStarSlash + 2 - parserInput.i),\n
      isLineComment: false\n          };\n          parserInput.i += comment.text.length - 1;\n
parserInput.commentStore.push(comment);\n          continue;\n        }\n      }\n    }\n
break;\n  }\n\n  if ((c !== CHARCODE_SPACE) && (c !== CHARCODE_LF) && (c !==
CHARCODE_TAB) && (c !== CHARCODE_CR)) {\n    break;\n  }\n\n  current =
current.slice(length + parserInput.i - mem + curr);\n  currentPos = parserInput.i;\n\n  if (!current.length) {\n
if (j < chunks.length - 1) {\n    current = chunks[++j];\n    skipWhitespace(0); // skip space at the
beginning of a chunk\n    return true; // things changed\n  }\n  parserInput.finished
= true;\n  }\n\n  return oldi !== parserInput.i || oldj !== j;\n}\n\n parserInput.save = () => {\n
currentPos = parserInput.i;\n  saveStack.push( { current, i: parserInput.i, j });\n  };\n parserInput.restore =
possibleErrorMessage => {\n  if (parserInput.i > furthest || (parserInput.i === furthest &&
possibleErrorMessage && !furthestPossibleErrorMessage)) {\n    furthest = parserInput.i;\n
furthestPossibleErrorMessage = possibleErrorMessage;\n  }\n  const state = saveStack.pop();\n  current =
state.current;\n  currentPos = parserInput.i = state.i;\n  j = state.j;\n  };\n parserInput.forget = () => {\n
saveStack.pop();\n  };\n parserInput.isWhitespace = offset => {\n  const pos = parserInput.i + (offset || 0);\n
const code = input.charCodeAt(pos);\n  return (code === CHARCODE_SPACE || code === CHARCODE_CR
|| code === CHARCODE_TAB || code ===
CHARCODE_LF);\n  };\n\n  // Specialization of $(tok)\n  parserInput.$re = tok => {\n    if (parserInput.i >
currentPos) {\n      current = current.slice(parserInput.i - currentPos);\n      currentPos = parserInput.i;\n
}\n\n    const m = tok.exec(current);\n    if (!m) {\n      return null;\n    }\n\n    skipWhitespace(m[0].length);\n    if (typeof m === 'string') {\n      return m;\n    }\n\n    return m.length
=== 1 ? m[0] : m;\n  };\n\n  parserInput.$char = tok => {\n    if (input.charAt(parserInput.i) !== tok) {\n
return null;\n    }\n    skipWhitespace(1);\n    return tok;\n  };\n\n  parserInput.$str = tok => {\n    const
tokLength = tok.length;\n\n    // https://jsperf.com/string-startswith/21\n    for (let i = 0; i < tokLength; i++) {\n
if (input.charAt(parserInput.i + i) !== tok.charAt(i)) {\n      return null;\n    }\n  }\n\n  skipWhitespace(tokLength);\n  return tok;\n  };\n\n  parserInput.$quoted = loc => {\n    const pos = loc
|| parserInput.i;\n    const startChar = input.charAt(pos);\n    if (startChar !== '\\' && startChar !== '"') {\n
return;\n    }\n    const length = input.length;\n    const currentPosition = pos;\n\n    for (let i = 1; i +
currentPosition < length; i++) {\n      const nextChar = input.charAt(i + currentPosition);\n      switch
(nextChar) {\n        case '\\\\':\n          i++;\n          continue;\n        case '\\r':\n          case
'\n':\n          break;\n        case startChar:\n          const str = input.substr(currentPosition, i + 1);\n
if (!loc && loc !== 0) {\n            skipWhitespace(i + 1);\n            return str\n          }\n
return [startChar, str];\n        }\n      }\n    }\n  };\n\n  return [startChar, str];\n}

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    default:\n        }\n        }\n        return null;\n    };\n\n    /**\n    * Permissive parsing. Ignores everything
except matching { } [ ] ( ) and quotes\n    * until matching token (outside of blocks)\n    */\n
parserInput.$parseUntil = tok => {\n    let quote = '';\n    let returnVal = null;\n    let inComment = false;\n
    let blockDepth = 0;\n    const blockStack = [];\n    const parseGroups = [];\n    const length = input.length;\n
    const startPos = parserInput.i;\n    let lastPos = parserInput.i;\n    let i = parserInput.i;\n    let loop = true;\n
    let testChar;\n\n    if (typeof tok === 'string') {\n        testChar = char => char === tok\n    } else {\n
    testChar = char => tok.test(char)\n    }\n\n    do {\n        let prevChar;\n        let nextChar =
input.charAt(i);\n        if (blockDepth === 0 && testChar(nextChar)) {\n            returnVal =
input.substr(lastPos,
i - lastPos);\n            if (returnVal) {\n                parseGroups.push(returnVal);\n            }\n            else {\n
                parseGroups.push('');\n            }\n            returnVal = parseGroups;\n            skipWhitespace(i -
startPos);\n            loop = false;\n        } else {\n            if (inComment) {\n                if (nextChar === '*'
&& \n                input.charAt(i + 1) === '/') {\n                    i++;\n                    blockDepth--;\n
                    inComment = false;\n                }\n                i++;\n                continue;\n            }\n            switch
(nextChar) {\n                case '\\\\':\n                    i++;\n                    nextChar = input.charAt(i);\n
                    parseGroups.push(input.substr(lastPos, i - lastPos + 1));\n                    lastPos = i + 1;\n
                    break;\n                case '/':\n                    if (input.charAt(i + 1) === '*') {\n                        i++;\n
                        inComment = true;\n                        blockDepth++;\n                    }\n                    break;\n
                case '\\':\n                    case '\"':\n                        quote = parserInput.$quoted(i);\n                        if (quote) {\n
                            parseGroups.push(input.substr(lastPos, i - lastPos), quote);\n                            i += quote[1].length - 1;\n
                            lastPos = i + 1;\n                        }\n                        else {\n                            skipWhitespace(i -
startPos);\n                            returnVal = nextChar;\n                            loop = false;\n                        }\n
                    break;\n                case '{':\n                    blockStack.push('{');\n
                    blockDepth++;\n                    break;\n                case '(':\n                    blockStack.push('(');\n
                    blockDepth++;\n                    break;\n                case '[':\n                    blockStack.push('[');\n
                    blockDepth++;\n                    break;\n                case ']':\n                    case ')':\n                    case '}':\n
                    const expected = blockStack.pop();\n                    if (nextChar === expected) {\n
                        blockDepth--;\n                    } else {\n                        // move the parser to the error and return expected\n
                        skipWhitespace(i - startPos);\n                        returnVal = expected;\n                        loop = false;\n
                    }\n                    i++;\n                    if (i > length) {\n                        loop
= false;\n                    }\n                    }\n                    prevChar = nextChar;\n                } while (loop);\n\n            return returnVal ?
returnVal : null;\n        }\n\n        parserInput.autoCommentAbsorb = true;\n        parserInput.commentStore = [];\n
        parserInput.finished = false;\n\n        // Same as $(), but don't change the state of the parser,\n        // just return the
match.\n        parserInput.peek = tok => {\n            if (typeof tok === 'string') {\n                // https://jsperf.com/string-
startswith/21\n                for (let i = 0; i < tok.length; i++) {\n                    if (input.charAt(parserInput.i + i) !==
tok.charAt(i)) {\n                        return false;\n                    }\n                }\n                return true;\n            } else {\n                return
tok.test(current);\n            }\n        };\n\n        // Specialization of peek()\n        // TODO remove or change some currentChar
calls to peekChar\n        parserInput.peekChar = tok => input.charAt(parserInput.i) === tok;\n\n        parserInput.currentChar
= () => input.charAt(parserInput.i);\n\n        parserInput.prevChar = () => input.charAt(parserInput.i - 1);\n\n        parserInput.getInput = () => input;\n\n        parserInput.peekNotNumeric = () => {\n            const c =
input.charCodeAt(parserInput.i);\n            // Is the first char of the dimension 0-9, '.', '+' or '-'\n            return (c >
CHARCODE_9 || c < CHARCODE_PLUS) || c === CHARCODE_FORWARD_SLASH || c ===
CHARCODE_COMMA;\n        };\n\n        parserInput.start = (str, chunkInput, failFunction) => {\n            input = str;\n
            parserInput.i = j = currentPos = furthest = 0;\n\n            // chunking apparently makes things quicker (but my tests
indicate\n            // it might actually make things slower in node at least)\n            // and it is a non-perfect parse - it can't
recognise\n            // unquoted urls, meaning it can't distinguish comments\n            // meaning comments with quotes or
{ } () in them get 'counted'\n            // and then lead to parse errors.\n            // In addition if the chunking

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chunks in the wrong place we might // not be able to parse a parser statement in one go // this is
officially deprecated but can be switched on via an option // in the case it causes too much performance
issues.
if (chunkInput) {
  chunks = chunker(str, failFunction);
} else {
  chunks = [str];
}
current = chunks[0];
skipWhitespace(0);
};
parserInput.end = () => {
  let
  message;
  const isFinished = parserInput.i >= input.length;
  if (parserInput.i < furthest) {
    message = furthestPossibleErrorMessage;
    parserInput.i = furthest;
  }
  return {
    isFinished,
    furthest: parserInput.i,
    furthestPossibleErrorMessage: message,
    furthestReachedEnd: parserInput.i >= input.length - 1,
    furthestChar: input[parserInput.i]
  };
};
return parserInput;
};
";
//
Split the input into chunks.
export default function (input, fail) {
  const len = input.length;
  let level = 0;
  let parenLevel = 0;
  let lastOpening;
  let lastOpeningParen;
  let lastMultiComment;
  let lastMultiCommentEndBrace;
  const chunks = [];
  let emitFrom = 0;
  let chunkerCurrentIndex;
  let currentChunkStartIndex;
  let cc;
  let cc2;
  let matched;
  function emitChunk(force) {
    const len = chunkerCurrentIndex - emitFrom;
    if (((len < 512) && !force) || !len) {
      return;
    }
    chunks.push(input.slice(emitFrom, chunkerCurrentIndex + 1));
    emitFrom = chunkerCurrentIndex + 1;
  }
  for (chunkerCurrentIndex = 0; chunkerCurrentIndex < len; chunkerCurrentIndex++) {
    cc = input.charCodeAt(chunkerCurrentIndex);
    if (((cc >= 97) && (cc <= 122)) || (cc < 34)) {
      // a-z or
      whitespace
      continue;
    }
    switch
    (cc) {
      case 40:
        // (
        parenLevel++;
        lastOpeningParen = chunkerCurrentIndex;
        continue;
      case 41:
        // )
        if (--parenLevel < 0) {
          return fail('missing opening `(`', chunkerCurrentIndex);
        }
        continue;
      case 59:
        // ;
        if (!parenLevel) {
          emitChunk();
        }
        continue;
      case 123:
        // {
        level++;
        lastOpening = chunkerCurrentIndex;
        continue;
      case 125:
        // }
        if (--level < 0) {
          return fail('missing opening `{', chunkerCurrentIndex);
        }
        if (!level && !parenLevel) {
          emitChunk();
        }
        continue;
      case 92:
        // \
        if (chunkerCurrentIndex < len - 1) {
          chunkerCurrentIndex++;
          continue;
        }
        return fail('unescaped
        \\\', chunkerCurrentIndex);
      case 34:
      case 39:
      case 96:
        // ", ' and `
        matched = 0;
        currentChunkStartIndex = chunkerCurrentIndex;
        for (chunkerCurrentIndex = chunkerCurrentIndex + 1; chunkerCurrentIndex < len; chunkerCurrentIndex++) {
          cc2 = input.charCodeAt(chunkerCurrentIndex);
          if (cc2 > 96) {
            continue;
          }
          if (cc2 == cc) {
            matched = 1;
            break;
          }
          if (cc2 == 92) {
            // \
            if (chunkerCurrentIndex == len - 1) {
              return fail('unescaped `\\\'', chunkerCurrentIndex);
            }
            chunkerCurrentIndex++;
          }
        }
        if (matched) {
          continue;
        }
        return fail(`unmatched \`${String.fromCharCode(cc)}\``, currentChunkStartIndex);
      case 47:
        // /, check for comment
        if (parenLevel || (chunkerCurrentIndex == len - 1)) {
          continue;
        }
        cc2 = input.charCodeAt(chunkerCurrentIndex + 1);
        if (cc2 == 47) {
          // //, find
          Infeed
          for (chunkerCurrentIndex = chunkerCurrentIndex + 2; chunkerCurrentIndex < len; chunkerCurrentIndex++) {
            cc2 = input.charCodeAt(chunkerCurrentIndex);
            if ((cc2 <= 13) && ((cc2 == 10) || (cc2 == 13))) {
              break;
            }
          }
          else if (cc2 == 42) {
            // /*, find */
            lastMultiComment = currentChunkStartIndex = chunkerCurrentIndex;
            for (chunkerCurrentIndex = chunkerCurrentIndex + 2; chunkerCurrentIndex < len - 1; chunkerCurrentIndex++) {
              cc2 = input.charCodeAt(chunkerCurrentIndex);
              if (cc2 == 125) {
                lastMultiCommentEndBrace = chunkerCurrentIndex;
              }
              if (cc2 != 42) {
                continue;
              }
              if (input.charCodeAt(chunkerCurrentIndex + 1) == 47) {
                break;
              }
              if (chunkerCurrentIndex == len - 1) {
                return fail('missing closing `*/', currentChunkStartIndex);
              }
              chunkerCurrentIndex++;
            }
            continue;
          }
          case 42:
            // *, check for unmatched */
            if ((chunkerCurrentIndex < len - 1) &&

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(input.charCodeAt(chunkerCurrentIndex + 1) === 47)) {\n          return fail('unmatched `/*`,
chunkerCurrentIndex);\n          }\n          continue;\n          }\n          }\n          if (level !== 0) {\n          if
((lastMultiComment > lastOpening) && (lastMultiCommentEndBrace > lastMultiComment))
{\n          return fail('missing closing `}` or `*/`, lastOpening);\n          } else {\n          return fail('missing closing
`}`, lastOpening);\n          }\n          } else if (parenLevel !== 0) {\n          return fail('missing closing `)`',
lastOpeningParen);\n          }\n          }\n          emitChunk(true);\n          return chunks;\n          };\n          }", "import LessError from './less-
error';\n          import tree from './tree';\n          import visitors from './visitors';\n          import getParserInput from './parser-
input';\n          import * as utils from './utils';\n          import functionRegistry from './functions/function-registry';\n          }\n          }\n          // less.js
- parser\n          }\n          // A relatively straight-forward predictive parser.\n          // There is no tokenization/lexing stage, the input
is parsed\n          // in one sweep.\n          // To make the parser fast enough to run in the browser, several\n          //
optimization had to be made:\n          // - Matching and slicing on a huge input is often cause of slowdowns.\n          //
The solution is to chunkify the input into
smaller strings.\n          // The chunks are stored in the `chunks` var,\n          // `j` holds the current chunk index, and
`currentPos` holds\n          // the index of the current chunk in relation to `input`.\n          // This gives us an almost 4x
speed-up.\n          // - In many cases, we don't need to match individual tokens;\n          // for example, if a value doesn't
hold any variables, operations\n          // or dynamic references, the parser can effectively 'skip' it,\n          // treating it as a
literal.\n          // An example would be '1px solid #000' - which evaluates to itself,\n          // we don't need to know what
the individual components are.\n          // The drawback, of course is that you don't get the benefits of\n          // syntax-
checking on the CSS. This gives us a 50% speed-up in the parser,\n          // and a smaller speed-up in the code-
gen.\n          // Token matching is done with the `$` function, which either takes\n          // a terminal string or regexp,
or a non-terminal function to call.\n          // It
also takes care of moving all the indices forwards.\n          }\n          }\n          const Parser = function Parser(context, imports, fileInfo)
{\n          let parsers;\n          const parserInput = getParserInput();\n          function error(msg, type) {\n          throw new
LessError(\n          {\n          index: parserInput.i,\n          filename: fileInfo.filename,\n          type: type ||
'Syntax',\n          message: msg\n          },\n          imports\n          );\n          }\n          function expect(arg, msg) {\n          // some older browsers return typeof 'function' for RegExp\n          const result = (arg instanceof Function) ?
arg.call(parsers) : parserInput.$re(arg);\n          if (result) {\n          return result;\n          }\n          error(msg ||
(typeof arg === 'string'\n          ? `expected '${arg}' got '${parserInput.currentChar()}`\n          : 'unexpected
token'));\n          }\n          // Specialization of expect()\n          function expectChar(arg, msg) {\n          if
(parserInput.$char(arg))
{\n          return arg;\n          }\n          error(msg || `expected '${arg}' got '${parserInput.currentChar()}`);\n          }\n          }\n          function getDebugInfo(index) {\n          const filename = fileInfo.filename;\n          return {\n          lineNumber:
utils.getLocation(index, parserInput.getInput()).line + 1,\n          fileName: filename\n          };\n          }\n          /**\n          *
Used after initial parsing to create nodes on the fly\n          * \n          * @param {String} str - string to parse \n          *
@param {Array} parseList - array of parsers to run input through e.g. ["value", "important"]\n          * @param
{Number} currentIndex - start number to begin indexing\n          * @param {Object} fileInfo - fileInfo to attach to
created nodes\n          * \n          function parseNode(str, parseList, currentIndex, fileInfo, callback) {\n          let result;\n          const returnNodes = [];\n          const parser = parserInput;\n          try {\n          parser.start(str, false,
function fail(msg, index) {\n          callback({\n          message: msg,\n          index: index +
currentIndex\n          });\n          });\n          for (let x = 0, p, i; (p = parseList[x]); x++) {\n          i =
parser.i;\n          result = parsers[p]();\n          if (result) {\n          try {\n          result._index = i
+ currentIndex;\n          result._fileInfo = fileInfo;\n          } catch (e) {\n          }\n          }\n          returnNodes.push(result);\n          }\n          else {\n          returnNodes.push(null);\n          }\n          }\n          }\n          const endInfo = parser.end();\n          if (endInfo.isFinished) {\n          callback(null,
returnNodes);\n          }\n          else {\n          callback(true, null);\n          }\n          } catch (e) {\n          throw
new LessError({\n          index: e.index
+ currentIndex,\n          message: e.message\n          }, imports, fileInfo.filename);\n          }\n          }\n          }\n          //\n          //
The Parser\n          //\n          return {\n          parserInput,\n          imports,\n          fileInfo,\n          parseNode,\n          //\n          //

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Parse an input string into an abstract syntax tree,\n      // @param str A string containing 'less' markup\n      // @param callback call `callback` when done.\n      // @param [additionalData] An optional map which can contains\n      vars - a map (key, value) of variables to apply\n      //\n      parse: function (str, callback, additionalData) {\n      let root;\n      let err = null;\n      let globalVars;\n      let modifyVars;\n      let ignored;\n      let\n      preText = ";\n      // Optionally disable @plugin parsing\n      if (additionalData &&\n      additionalData.disablePluginRule) {\n      parsers.plugin = function() {\n      var dir =\n      parserInput.$re(/^@plugin?\s+/);\n      if (dir) {\n      error('@plugin statements are not allowed when disablePluginRule is set to\n      true');\n      }\n      }\n      }\n      globalVars = (additionalData &&\n      additionalData.globalVars) ? `${Parser.serializeVars(additionalData.globalVars)}\n      ` : ";\n      modifyVars =\n      (additionalData && additionalData.modifyVars) ? `${Parser.serializeVars(additionalData.modifyVars)}\n      ` : ";\n      if (context.pluginManager) {\n      const preProcessors = context.pluginManager.getPreProcessors();\n      for (let i = 0; i < preProcessors.length; i++) {\n      str = preProcessors[i].process(str, { context,\n      imports, fileInfo });\n      }\n      }\n      if (globalVars || (additionalData && additionalData.banner))\n      {\n      preText = ((additionalData && additionalData.banner) ? additionalData.banner :\n      ") + globalVars;\n      ignored = imports.contentsIgnoredChars;\n      ignored[fileInfo.filename] =\n      ignored[fileInfo.filename] || 0;\n      ignored[fileInfo.filename] += preText.length;\n      }\n      str =\n      str.replace(/\\r\\n?/g, "\\n");\n      // Remove potential UTF Byte Order Mark\n      str = preText +\n      str.replace(/\\uFEFF/,"") + modifyVars;\n      imports.contents[fileInfo.filename] = str;\n      // Start with\n      the primary rule.\n      // The whole syntax tree is held under a Ruleset node,\n      // with the `root` property\n      set to true, so no `{}` are\n      // output. The callback is called when the input is parsed.\n      try {\n      parserInput.start(str, context.chunkInput, function fail(msg, index) {\n      throw new LessError({\n      index,\n      type: 'Parse',\n      message: msg,\n      fileInfo:\n      fileInfo.filename\n      }, imports);\n      });\n      tree.Node.prototype.parse = this;\n      root = new tree.Ruleset(null, this.parsers.primary());\n      tree.Node.prototype.rootNode = root;\n      root.root = true;\n      root.firstRoot = true;\n      root.functionRegistry = functionRegistry.inherit();\n      }\n      } catch (e) {\n      return callback(new LessError(e, imports, fileInfo.filename));\n      }\n      // If `i` is smaller than the `input.length - 1`,\n      // it means the parser wasn't able to parse the whole\n      // string, so we've got a parsing error.\n      // We try to extract a \\n delimited string,\n      // showing the line where the parse error occurred.\n      // We split it up into two parts (the part which parsed,\n      // and the part which didn't), so we can color them\n      differently.\n      const endInfo = parserInput.end();\n      if (!endInfo.isFinished) {\n      let message\n      = endInfo.furthestPossibleErrorMessage;\n      if (!message) {\n      message = 'Unrecognised\n      input';\n      if (endInfo.furthestChar === '{') {\n      message += '. Possibly missing opening\n      \\{\\{';\n      } else if (endInfo.furthestChar === ')') {\n      message += '. Possibly missing\n      opening \\(\\(';\n      } else if (endInfo.furthestReachedEnd) {\n      message += '. Possibly\n      missing something';\n      }\n      }\n      err = new LessError({\n      type: 'Parse',\n      message,\n      index: endInfo.furthest,\n      fileInfo: fileInfo.filename\n      },\n      imports);\n      }\n      const finish = e => {\n      e = err || e || imports.error;\n      if (e) {\n      if (!(e instanceof LessError)) {\n      e =\n      new LessError(e, imports, fileInfo.filename);\n      }\n      return callback(e);\n      }\n      else {\n      return callback(null, root);\n      }\n      }\n      if (context.processImports !==\n      false) {\n      new visitors.ImportVisitor(imports, finish)\n      .run(root);\n      } else {\n      return finish();\n      }\n      }\n      // Here in, the parsing rules/functions\n      // The basic\n      structure of the syntax tree generated is as follows:\n      // Ruleset -> Declaration -> Value -> Expression\n      -> Entity\n      // Here's some Less code:\n      // .class {\n      // color: #fff;\n      //\n      border: 1px solid

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#000;\n // width: @w + 4px;\n // > .child {...}\n // }\n //\n // And here's what the parse
tree might look like:\n //\n // Ruleset (Selector '.class', [\n // Declaration ("color", Value
([Expression [Color #fff]]))\n // Declaration ("border", Value ([Expression [Dimension 1px][Keyword
\'"solid"[Color #000]]))\n // Declaration ("width", Value ([Expression [Operation \"+\" [Variable
\'"@w"[Dimension 4px]]]))\n // Ruleset (Selector [Element '>', '.child'], [...])\n // )\n //\n //
In general, most rules will try to parse a token with the `sre()` function, and if the return\n // value is truly, will
return a new node, of the relevant type. Sometimes, we need to check\n // first, before parsing, that's when we
use `peek()`. \n //\n // parsers: parsers = {\n //\n // The `primary` rule
is the *entry* and *exit* point of the parser.\n // The rules here can appear at any level of the parse tree.\n
//\n // The recursive nature of the grammar is an interplay between the `block`\n // rule, which
represents `{ ... }`, the `ruleset` rule, and this `primary` rule,\n // as represented by this simplified grammar:\n
//\n // primary (ruleset | declaration)+\n // ruleset selector+ block\n // block
{' primary '}\n //\n // Only at one point is the primary rule not called from the\n // block rule: at
the root level.\n //\n // primary: function () {\n // const mixin = this.mixin;\n // let root =
[];\n // let node;\n // while (true) {\n // while (true) {\n // node =
this.comment();\n // if (!node) { break;\n // }\n // root.push(node);\n // }\n // // always process comments before deciding if
finished\n // if (parserInput.finished) {\n // break;\n // }\n // if
(parserInput.peek('')) {\n // break;\n // }\n // node = this.extendRule();\n //
if (node) {\n // root = root.concat(node);\n // continue;\n // }\n // node
= mixin.definition() || this.declaration() || mixin.call(false, false) || \n // this.ruleset() || this.variableCall()
|| this.entities.call() || this.atrule();\n // if (node) {\n // root.push(node);\n // } else {\n //
let foundSemiColon = false;\n // while (parserInput.$char(';')) {\n //
foundSemiColon = true;\n // }\n // if (!foundSemiColon) {\n // break;\n //
}\n // }\n // }\n // return root;\n // },\n // // comments are collected by
the main parsing mechanism and then assigned to nodes\n // // where the current structure allows it\n //
comment: function () {\n // if (parserInput.commentStore.length) {\n // const comment =
parserInput.commentStore.shift();\n // return new(tree.Comment)(comment.text,
comment.isLineComment, comment.index, fileInfo);\n // }\n // },\n // // Entities are
tokens which can be found inside an Expression\n // // entities: {\n // mixinLookup: function()
{\n // return parsers.mixin.call(true, true);\n // },\n // //\n // // A string, which supports escaping \" and \"\n // // \"milky way\" he\\'s the one!\n //
//\n // quoted: function (forceEscaped) {\n // let str;\n // const index = parserInput.i;\n //
let isEscaped = false;\n // parserInput.save();\n // if (parserInput.$char('~')) {\n //
isEscaped = true;\n // } else if (forceEscaped) {\n // parserInput.restore();\n //
return;\n // }\n // str = parserInput.$quoted();\n // if (!str) {\n //
parserInput.restore();\n // return;\n // }\n // parserInput.forget();\n //
return new(tree.Quoted)(str.charAt(0), str.substr(1, str.length - 2), isEscaped, index, fileInfo);\n // },\n //
//\n // // A catch-all word, such as:\n // // black border-collapse\n // //\n //
keyword: function () {\n // const k = parserInput.$char('%') || parserInput.$re(/^[?:([\w-]\\\\\\\\(?:[A-
Fa-f0-9]{1,6} ?[^\A-Fa-f0-9])+\|)?/);\n // if (k) {\n // return tree.Color.fromKeyword(k) ||
new(tree.Keyword)(k);\n // }\n // },\n // //\n // // A function call\n // //\n // // rgb(255, 0, 255)\n // //\n // // The arguments are parsed with the `entities.arguments` parser.\n //
//\n // call: function () {\n // let name;\n // let args;\n // let func;\n //
const index = parserInput.i;\n // // http://jsperf.com/case-insensitive-regex-vs-strtolower-then-
regex/18\n //\n // if (parserInput.peek(/^url\\((i) { \n // return;\n // }\n //
parserInput.save();\n // name = parserInput.$re(/^(\\w-]+|~|progid:\\w\\.\\.+\\(\\)/);\n // if

```

```

(!name) {\n
name[1];\n
func.parse();\n
return args;\n
(!parserInput.$char('')) {\n
return;\n
}
parserInput.forget();\n
return new(tree.Call)(name, args, index, fileInfo);\n
},\n
\n
//\n
// Parsing rules for functions with non-standard args, e.g.:\n
//\n
// This is a quick prototype, to be modified/improved when\n
// more custom-parsed funcs come (e.g. `selector(...)`)\n
//\n
customFuncCall: function
(name) {\n
/* Ideally the table is to be moved out of here for faster perf.,\n
but it's quite\n
tricky since it relies on all these `parsers`\n
and `expect` available only here */\n
return {\n
alpha: f(parsers.ieAlpha, true),\n
boolean: f(condition),\n
'if':
f(condition)\n
}{name.toLowerCase());\n
function f(parse, stop) {\n
return {\n
parse, // parsing function\n
stop // when true - stop after parse() and return its result, \n
// otherwise continue for plain args\n
};\n
}\n
\n
function
condition() {\n
return [expect(parsers.condition, 'expected condition')];\n
}\n
},\n
\n
arguments: function (prevArgs) {\n
let argsComma = prevArgs || [];\n
const
argsSemiColon = [];\n
let isSemiColonSeparated;\n
let value;\n
\n
parserInput.save();\n
while (true) {\n
if (prevArgs) {\n
prevArgs =
false;\n
} else {\n
value = parsers.detachedRuleset() || this.assignment() || parsers.expression();\n
if
(!value) {\n
break;\n
}\n
\n
if (value.value &&
value.value.length == 1) {\n
value = value.value[0];\n
}\n
\n
argsComma.push(value);\n
}\n
\n
if (parserInput.$char(',') {\n
continue;\n
}\n
\n
if (parserInput.$char(';') || isSemiColonSeparated) {\n
isSemiColonSeparated = true;\n
value = (argsComma.length < 1) ? argsComma[0]\n
: new tree.Value(argsComma);\n
argsSemiColon.push(value);\n
argsComma =
[];\n
}\n
}\n
\n
}\n
\n
return isSemiColonSeparated ? argsSemiColon :
argsComma;\n
},\n
\n
literal: function () {\n
return this.dimension() ||\n
this.color() ||\n
this.quoted() ||\n
this.unicodeDescriptor();\n
},\n
\n
// Assignments are argument entities for calls.\n
// They are present in ie filter properties as shown below.\n
//\n
// filter: progid:DXImageTransform.Microsoft.Alpha( *opacity=50* )\n
//\n
assignment: function () {\n
let key;\n
let value;\n
\n
parserInput.save();\n
key = parserInput.$re(/^\\w+(?=\\s?=)/i);\n
if (!key) {\n
parserInput.restore();\n
return;\n
}\n
\n
if (!parserInput.$char('=')) {\n
parserInput.restore();\n
return;\n
}\n
\n
value = parsers.entity();\n
if (value) {\n
parserInput.forget();\n
return new(tree.Assignment)(key, value);\n
} else {\n
parserInput.restore();\n
}\n
},\n
\n
//\n
// Parse url() tokens\n
//\n
// We use a specific rule for urls, because they don't really behave like\n
// standard function calls. The\n
difference is that the argument doesn't have\n
// to be enclosed within a string, so it can't be parsed as an\n
Expression.\n
//\n
url: function () {\n
let value;\n
const index =
parserInput.i;\n
\n
parserInput.autoCommentAbsorb = false;\n
if (!parserInput.$str('url(')) {\n
parserInput.autoCommentAbsorb = true;\n
return;\n
}\n
\n
value =

```

```

this.quoted() || this.variable() || this.property() || \n                parserInput.$re(/^(?:(?:\\|\\\(|\\|\\")|\\[\(\)\"])+/)
|| "; \n\n                parserInput.autoCommentAbsorb = true; \n\n                expectChar(''); \n\n                return
new(tree.URL)((value.value != null || \n                value instanceof tree.Variable || \n                value
instanceof tree.Property) ? \n                value : new(tree.Anonymous)(value, index), index, fileInfo); \n
}, \n\n                // \n                // A Variable entity, such as `@fink`, in \n                // \n                // width: @fink +
2px \n                // \n                // We
use a different parser for variable definitions, \n                // see `parsers.variable`. \n                // \n                variable:
function () { \n                let ch; \n                let name; \n                const index = parserInput.i; \n\n
parserInput.save(); \n                if (parserInput.currentChar() === '@' && (name = parserInput.$re(/@@?[\w-
]+/))) { \n                ch = parserInput.currentChar(); \n                if (ch === '(' || ch === '[' &&
!parserInput.prevChar().match(/^[s/]) { \n                // this may be a VariableCall lookup \n
const result = parsers.variableCall(name); \n                if (result) { \n                parserInput.forget(); \n
return result; \n                } \n                } \n                parserInput.forget(); \n
return new(tree.Variable)(name,
index, fileInfo); \n                } \n                parserInput.restore(); \n                }, \n\n                // A variable entity
using the protective { } e.g. @ { var } \n                variableCurly: function () { \n                let curly; \n
const index = parserInput.i; \n\n                if (parserInput.currentChar() === '@' && (curly =
parserInput.$re(/@\\{([\\w-]+)\\}/))) { \n                return new(tree.Variable)('@${curly[1]}', index,
fileInfo); \n                } \n                }, \n\n                // \n                // A Property accessor, such as `$color`, in \n
// \n                // background-color: $color \n                // \n                property: function () { \n                let name; \n
const index = parserInput.i; \n\n                if (parserInput.currentChar() === '$' && (name =
parserInput.$re(/^\$([\\w-]+)/)) { \n                return new(tree.Property)(name,
index, fileInfo); \n                } \n                }, \n\n                // \n                // A property entity using the protective { } e.g.
${prop} \n                propertyCurly: function () { \n                let curly; \n                const index =
parserInput.i; \n\n                if (parserInput.currentChar() === '$' && (curly = parserInput.$re(/^\$\\{([\\w-
]+)\\}/))) { \n                return new(tree.Property)('${curly[1]}', index, fileInfo); \n                } \n                }, \n\n                // \n                // A Hexadecimal color \n                // \n                // #4F3C2F \n                // \n                //
`rgb` and `hsl` colors are parsed through the `entities.call` parser. \n                // \n                color: function () { \n
let rgb; \n                parserInput.save(); \n\n                if (parserInput.currentChar() === '#' && (rgb =
parserInput.$re(/^#[A-Fa-f0-9]{8}|[A-Fa-f0-9]{6}|[A-Fa-f0-9]{3,4}([\\w.#\\[\\]?)?))
{ \n                if (!rgb[2]) { \n                parserInput.forget(); \n                return
new(tree.Color)(rgb[1], undefined, rgb[0]); \n                } \n                } \n                parserInput.restore(); \n
}, \n\n                colorKeyword: function () { \n                parserInput.save(); \n                const
autoCommentAbsorb = parserInput.autoCommentAbsorb; \n                parserInput.autoCommentAbsorb = false; \n
const k = parserInput.$re(/^[_A-Za-z-][_A-Za-z0-9-]+/); \n                parserInput.autoCommentAbsorb
= autoCommentAbsorb; \n                if (!k) { \n                parserInput.forget(); \n                return; \n
} \n                parserInput.restore(); \n                const color = tree.Color.fromKeyword(k); \n                if
(color) { \n
parserInput.$str(k); \n                return color; \n                } \n                }, \n\n                // \n                // A
Dimension, that is, a number and a unit \n                // \n                // 0.5em 95% \n                // \n                dimension:
function () { \n                if (parserInput.peekNotNumeric()) { \n                return; \n                } \n\n
const value = parserInput.$re(/^[+-]?\\d*\\.?\\d+(%|[a-z_]+)?/i); \n                if (value) { \n                return
new(tree.Dimension)(value[1], value[2]); \n                } \n                }, \n\n                // \n                // A unicode
descriptor, as is used in unicode-range \n                // \n                // U+0?? or U+00A1-00A9 \n                // \n
unicodeDescriptor: function () { \n                let ud; \n\n                ud = parserInput.$re(/^U\\|[0-9a-fA-F?]+(\\-
[0-9a-fA-F?]+)?/); \n
if (ud) { \n                return new(tree.UnicodeDescriptor)(ud[0]); \n                } \n                }, \n\n                // \n                // JavaScript code to be evaluated \n                // \n                // `window.location.href` \n

```

```
//\n    javascript: function () {\n        let js;\n        const index = parserInput.i;\n        parserInput.save();\n        const escape = parserInput.$char('~');\n        const jsQuote =\n        parserInput.$char('');\n        if (!jsQuote) {\n            parserInput.restore();\n            return;\n        }\n        js = parserInput.$re(/^[^]*$/);\n        if (js) {\n            parserInput.forget();\n            return new(tree.JavaScript)(js.substr(0, js.length - 1), Boolean(escape), index,\n            fileInfo);\n        }\n        parserInput.restore('invalid javascript definition');\n    },\n    //\n    //\n    // @fink;\n    //\n    variable: function () {\n        let name;\n        if (parserInput.currentChar() === '@' && (name =\n        parserInput.$re(/^(@[\\w-]+)\\s*:/)) { return name[1]; }\n    },\n    // Call a variable value to\n    retrieve a detached ruleset\n    // or a value from a detached ruleset's rules.\n    // @fink);\n    //\n    // @fink;\n    //\n    color: @fink[@color];\n    //\n    variableCall: function (parsedName) {\n        let lookups;\n        const i = parserInput.i;\n        const inValue = !!parsedName;\n        let name =\n        parsedName;\n        parserInput.save();\n        if (name || (parserInput.currentChar() === '@'\n        && (name = parserInput.$re(/^(@[\\w-\n        ]+)(\\s*\\/)?/))) {\n            lookups = this.mixin.ruleLookups();\n            if (!lookups && ((inValue\n        && parserInput.$str('()') !== '()') || (name[2] !== '()'))) {\n                parserInput.restore('Missing [...] lookup\n        in variable call');\n                return;\n            }\n            if (!inValue) {\n                name =\n                name[1];\n            }\n            const call = new tree.VariableCall(name, i, fileInfo);\n            if\n        (!inValue && parsers.end()) {\n                parserInput.forget();\n                return call;\n            }\n            else {\n                parserInput.forget();\n                return new tree.NamespaceValue(call, lookups, i,\n        fileInfo);\n            }\n        }\n    },\n    parserInput.restore();\n},\n//\n// extend syntax - used to extend\nselectors\n//\nextend: function(isRule) {\n    let elements;\n    let e;\n    const\n        index = parserInput.i;\n        let option;\n        let extendList;\n        let extend;\n        if\n        (!parserInput.$str(isRule ? '&:extend(' : ':extend(')) {\n            return;\n        }\n        do {\n            option = null;\n            elements = null;\n            while (!(option = parserInput.$re(/^(all)(?=\\s*(\\|))/)))\n        {\n            e = this.element();\n            if (!e) {\n                break;\n            }\n            if (elements) {\n                elements.push(e);\n            } else {\n                elements = [ e ];\n            }\n            option = option && option[1];\n            if\n        (!elements) {\n                error('Missing target selector for :extend().');\n            }\n            extend =\n            new(tree.Extend)(new(tree.Selector)(elements), option, index, fileInfo);\n            if (extendList) {\n                extendList.push(extend);\n            } else {\n                extendList = [ extend ];\n            }\n        }\n    } while (parserInput.$char(','));\n    expect(/^(\\|)/);\n    if (isRule) {\n        expect(/^(\\|)/);\n    }\n    return extendList;\n},\n//\n// extendRule - used in a rule to extend all the\nparent selectors\n//\nextendRule: function() {\n    return this.extend(true);\n},\n//\n// Mixins\n//\n    mixin: {\n        // A Mixin call, with an optional\n        argument list\n        //\n        // #mixins > .square(#fff);\n        // #mixins.square(#fff);\n        // .rounded(4px, black);\n        // .button;\n        //\n        // We can lookup / return a value using\n        the lookup syntax;\n        //\n        // color: #mixin.square(#fff)[@color];\n        //\n        // The\n        `while` loop is there because mixins can be\n        // namespaces, but we only support the child and\n        descendant\n        // selector for now.\n        //\n        call: function (inValue, getLookup) {\n            const s = parserInput.currentChar();\n            let important = false;\n            let lookups;\n            const index = parserInput.i;\n            let elements;\n            let args;\n            let hasParens;\n            if (s !== '.' && s !== '#') {\n                return; }\n            parserInput.save(); // stop us absorbing part of an invalid selector\n            elements\n            = this.elements();\n            if (elements) {\n                if (parserInput.$char('(') {\n                    args\n                    = this.args(true).args;\n                    expectChar(')');\n                    hasParens = true;\n                }\n            }\n        }\n    }\n}
```

```

        if (getLookup !== false) {\n                lookups = this.ruleLookups();\n                }\n        if (getLookup === true && !lookups) {\n                parserInput.restore();\n                return;\n        }\n        if (inValue && !lookups && !hasParens) {\n                // This isn't\n                a valid in-value mixin call\n                parserInput.restore();\n                return;\n        }\n        if (!inValue && parsers.important()) {\n                important = true;\n        }\n        if (inValue || parsers.end()) {\n                parserInput.forget();\n                const mixin =\n                new(tree.mixin.Call)(elements, args, index, fileInfo, !lookups && important);\n                if (lookups) {\n                        return new tree.NamespaceValue(mixin, lookups);\n                } else {\n                        return mixin;\n                }\n        }\n        parserInput.restore();\n    },\n    /**\n     * Matching elements for mixins\n     * (Start\n     with\n     . or # and can have >)\n     *\n     elements: function() {\n         let elements;\n         let\n         e;\n         let c;\n         let elem;\n         let elemIndex;\n         const re = /^[#.](?:[\\w-]\n        ]|\\\\(?:[A-Za-f0-9]{1,6} ?|^A-Za-f0-9))+/;\n        while (true) {\n            elemIndex =\n            parserInput.i;\n            e = parserInput.$re(re);\n            if (!e) {\n                break;\n            }\n            elem = new(tree.Element)(c, e, false, elemIndex, fileInfo);\n            if (elements) {\n                elements.push(elem);\n            } else {\n                elements = [\n                elem ];\n            }\n            c = parserInput.$char('>');\n            return elements;\n        },\n        args: function (isCall) {\n            const entities = parsers.entities;\n            const\n            returner = { args:null, variadic: false };\n            let expressions = [];\n            const argsSemiColon = [];\n            const argsComma = [];\n            let isSemiColonSeparated;\n            let\n            expressionContainsNamed;\n            let name;\n            let nameLoop;\n            let value;\n            let arg;\n            let expand;\n            let hasSep = true;\n            parserInput.save();\n            while (true) {\n                if (isCall) {\n                    arg = parsers.detachedRuleset() ||\n                    parsers.expression();\n                } else {\n                    parserInput.commentStore.length = 0;\n                    if (parserInput.$str('...')) {\n                        returner.variadic = true;\n                        if (parserInput.$char(';') && !isSemiColonSeparated) {\n                            isSemiColonSeparated = true;\n                        }\n                        (isSemiColonSeparated ? argsSemiColon : argsComma)\n                            .push({ variadic: true });\n                        break;\n                    }\n                    arg = entities.variable() || entities.property() || entities.literal()\n                    || entities.keyword() || this.call(true);\n                }\n                if (!arg || !hasSep) {\n                    break;\n                }\n                nameLoop = null;\n                if (arg.throwAwayComments) {\n                    arg.throwAwayComments();\n                }\n                value = arg;\n                let val =\n                null;\n                if (isCall) {\n                    // Variable\n                    if (arg.value && arg.value.length === 1)\n                    {\n                        val = arg.value[0];\n                    } else {\n                        val =\n                        arg;\n                    }\n                    if (val && (val instanceof tree.Variable || val instanceof tree.Property)) {\n                        if (parserInput.$char(':')) {\n                            if (expressions.length > 0) {\n                                if (isSemiColonSeparated) {\n                                    error('Cannot mix ; and , as delimiter types');\n                                }\n                                expressionContainsNamed = true;\n                            }\n                            value = parsers.detachedRuleset() || parsers.expression();\n                            if (!value) {\n                                if (isCall) {\n                                    error('could not understand value for named\n                                argument');\n                                } else {\n                                    parserInput.restore();\n                                }\n                                returner.args = [];\n                                return returner;\n                            }\n                            nameLoop = (name = val.name);\n                        } else if (parserInput.$str('...')) {\n                            if (!isCall) {\n                                returner.variadic = true;\n                            }\n                            if (parserInput.$char(';') &&\n                            !isSemiColonSeparated) {\n                                isSemiColonSeparated = true;\n                            }\n                            (isSemiColonSeparated ? argsSemiColon : argsComma)\n
```

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        .push({ name: arg.name, variadic: true });\n                break;\n                } else
{\n                expand = true;\n                }\n                } else if (!isCall) {\n
        name = nameLoop = val.name;\n                value = null;\n                }\n                }\n\n
        if (value) {\n                expressions.push(value);\n                }\n\n
argsComma.push({ name:nameLoop, value, expand });\n\n                if (parserInput.$char(',') {\n
        hasSep = true;\n                continue;\n                }\n                hasSep = parserInput.$char(',') ===
';'\n\n                if (hasSep || isSemiColonSeparated) {\n\n                if (expressionContainsNamed)
{\n                error('Cannot mix ; and , as delimiter types');\n                }\n\n
isSemiColonSeparated = true;\n\n                if (expressions.length > 1) {\n                value =
new(tree.Value)(expressions);\n                }\n                argsSemiColon.push({ name, value, expand
});\n\n                name = null;\n                expressions = [];\n\n
expressionContainsNamed = false;\n                }\n                }\n\n                parserInput.forget();\n
        returner.args = isSemiColonSeparated ? argsSemiColon : argsComma;\n                return returner;\n
},\n                /\n                // A Mixin definition, with a list of parameters\n                /\n                // .rounded
(@radius: 2px, @color) {\n                //
        ...}\n                // }\n                /\n                // Until we have a finer grained state-machine, we have to\n
// do a look-ahead, to make sure we don't have a mixin call.\n                // See the `rule` function for more
information.\n                /\n                // We start by matching `rounded`, and then proceed on to\n                // the
argument list, which has optional default values.\n                // We store the parameters in `params`, with a `value`
key,\n                // if there is a value, such as in the case of `@radius`.\n                /\n                // Once we've got our
params list, and a closing `}`, we parse\n                // the `{...}` block.\n                /\n                definition: function ()
{\n                let name;\n                let params = [];\n                let match;\n                let ruleset;\n
        let cond;\n                let variadic
        = false;\n                if ((parserInput.currentChar() !== '.' && parserInput.currentChar() !== '#') ||\n
parserInput.peek(/^[\^{}*\\\/]) {\n                return;\n                }\n\n                parserInput.save();\n\n
        match = parserInput.$re(/^(#[.](?:[\\w-]\\\\|\\\\(?:[A-Za-z0-9]{1,6} ?|^[A-Za-z0-9]))+)[s*\\(\\(]/);\n                if
(match) {\n                name = match[1];\n\n                const argInfo = this.args(false);\n\n
        params = argInfo.args;\n                variadic = argInfo.variadic;\n\n                // .mixincall("@{a}");\n
                // looks a bit like a mixin definition.\n                // also\n                // .mixincall(@a: {rule:
set;});\n                // so we have to be nice and restore\n                if (!parserInput.$char('}')) {\n
        parserInput.restore('Missing
closing \\')');\n                return;\n                }\n\n                parserInput.commentStore.length =
0;\n\n                if (parserInput.$str('when')) { // Guard\n                cond = expect(parsers.conditions,
'expected condition');\n                }\n\n                ruleset = parsers.block();\n\n                if (ruleset) {\n
        parserInput.forget();\n                return new(tree.mixin.Definition)(name, params, ruleset,
cond, variadic);\n                } else {\n                parserInput.restore();\n                }\n                }
else {\n                parserInput.restore();\n                }\n                },\n                \n                ruleLookups:
function() {\n                let rule;\n                let args;\n                const lookups = [];\n
        if (parserInput.currentChar() !== '[') {\n                return;\n                }\n\n                while (true) {\n
        parserInput.save();\n                args = null;\n                rule = this.lookupValue();\n
        if (!rule && rule !== '') {\n                parserInput.restore();\n                break;\n                }\n
        lookups.push(rule);\n                parserInput.forget();\n                }\n                if (lookups.length >
0) {\n                return lookups;\n                }\n                },\n                \n                lookupValue: function() {\n
        parserInput.save();\n                \n                if (!parserInput.$char('[')) {\n                parserInput.restore();\n
        return;\n                }\n                \n                const name = parserInput.$re(/^(?:[@$]{0,2})[_a-zA-Z0-9-]*$/);\n
        \n                if (!parserInput.$char('[')) {\n                parserInput.restore();\n                return;\n
        }\n                \n                if (name || name === '') {\n                parserInput.forget();\n                return name;\n
        }\n                \n                parserInput.restore();\n                }\n                },\n                /\n                // Entities are the

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smallest recognized token,\n          // and can be found inside a rule's value.\n          /\n          entity: function ()
{\n          const entities = this.entities;\n          return this.comment() || entities.literal() || entities.variable() ||
entities.url() ||\n          entities.property() || entities.call() || entities.keyword() || this.mixin.call(true) ||\n          entities.javascript();\n          },\n          /\n          // A Declaration terminator.
Note that we use `peek()` to check for `}`,\n          // because the `block` rule will be expecting it, but we still need
to make sure\n          // it's there, if `;` was omitted.\n          /\n          end: function () {\n          return
parserInput.$char(';') || parserInput.peek('}');\n          },\n          /\n          // IE's alpha function\n          /\n
// alpha(opacity=88)\n          /\n          ieAlpha: function () {\n          let value;\n          //
http://jstperf.com/case-insensitive-regex-vs-strtolower-then-regex/18\n          if (!parserInput.$re(/^opacity=/i)) {\n
return; }\n          value = parserInput.$re(/^(\d+)/);\n          if (!value) {\n          value =
expect(parsers.entities.variable, 'Could not parse alpha');\n          value = `@${value.name.slice(1)}`;
}\n          expectChar('');\n          return new tree.Quoted("`alpha(opacity=${value})`");\n
          },\n          /\n          // A Selector Element\n          /\n          // div\n          // + h1\n          //
#socks\n          // input[type="text"]\n          /\n          // Elements are the building blocks for Selectors,\n
// they are made out of a `Combinator` (see combinator rule),\n          // and an element name, such as a tag a class,
or `*`.\n          /\n          element: function () {\n          let e;\n          let c;\n          let v;\n          const
index = parserInput.i;\n          c = this.combinator();\n          e = parserInput.$re(/^(?:\d+|\.\d+|\d+%)/)
||\n          parserInput.$re(/^(?:[#]?[*]?(?:[\w-]|[\x00-\x9f]|(?:[A-Za-f0-9]{1,6} ?(?:[A-Za-f0-9]))+)))/\n
          parserInput.$char('*') || parserInput.$char('&') || this.attribute() ||\n
parserInput.$re(/^([\^&()@+\\])/)
|| parserInput.$re(/^[\.#:](?=@)/) ||\n          this.entities.variableCurly();\n          if (!e) {\n
parserInput.save();\n          if (parserInput.$char('(')) {\n          if ((v = this.selector(false)) &&
parserInput.$char('')) {\n          e = new(tree.Paren)(v);\n          parserInput.forget();\n
          } else {\n          parserInput.restore('Missing closing `)`');\n          } else
{\n          parserInput.forget();\n          }\n          }\n          if (e) { return new(tree.Element)(c,
e, e instanceof tree.Variable, index, fileInfo); }\n          },\n          /\n          // Combinators combine elements
together, in a Selector.\n          /\n          // Because our parser isn't white-space sensitive, special care\n          //
has to be taken,
when parsing the descendant combinator, ` `,\n          // as it's an empty space. We have to check the previous
character\n          // in the input, to see if it's a ` ` character. More info on how\n          // we deal with this in
`combinator.js`.\n          /\n          combinator: function () {\n          let c = parserInput.currentChar();\n
          if (c === '/') {\n          parserInput.save();\n          const slashedCombinator = parserInput.$re(/^\\[a-
z]+\|/i);\n          if (slashedCombinator) {\n          parserInput.forget();\n          return
new(tree.Combinator)(slashedCombinator);\n          }\n          parserInput.restore();\n          }\n
          if (c === '>' || c === '+' || c === '~' || c === '|' || c === '^') {\n          parserInput.i++;
          if (c ===
'^' && parserInput.currentChar() === '^') {\n
          c = '^';\n          parserInput.i++;\n          }\n          while (parserInput.isWhitespace()) {\n
parserInput.i++; }\n          return new(tree.Combinator)(c);\n          } else if (parserInput.isWhitespace(-1))
{\n          return new(tree.Combinator)(' '); }\n          } else {\n          return
new(tree.Combinator)(null);\n          },\n          /\n          // A CSS Selector\n          // with less
extensions e.g. the ability to extend and guard\n          /\n          // .class > div + h1\n          // li a:hover\n
          /\n          // Selectors are made out of one or more Elements, see above.\n          /\n          selector: function
(isLess) {\n          const index = parserInput.i;\n          let elements;\n          let extendList;\n          let
c;\n          let e;\n          let allExtends;\n          let when;\n          let condition;\n          isLess = isLess !== false;\n          while ((isLess && (extendList
= this.extend())) || (isLess && (when = parserInput.$str('when')))) || (e = this.element())) {\n          if (when) {\n
          condition = expect(this.conditions, 'expected condition');\n          } else if (condition) {\n
          error('CSS guard can only be used at the end of selector');\n          } else if (extendList) {\n

```



```

if (allExtends) {\n
    allExtends = allExtends.concat(extendList);\n
} else {\n
    allExtends = extendList;\n
} else {\n
    if (allExtends) {\n
error('Extend can only be used at the end of selector'); }\n
        c = parserInput.currentChar();\n
    if (elements) {\n
        elements.push(e);\n
    } else {\n
        elements = [ e ];\n
    }\n
    e = null;\n
} if (c === "'" || c === '"' || c === ';' || c === ',' || c === ')') {\n
break;\n
}\n
}\n\n
if (elements) { return new(tree.Selector)(elements, allExtends,\n
condition, index, fileInfo); }\n
if (allExtends) { error('Extend must be used to extend a selector, it cannot be\n
used on its own'); }\n
},\n
selectors: function () {\n
    let s;\n
    let selectors;\n
while (true) {\n
    s = this.selector();\n
    if (!s) {\n
        break;\n
    }\n
    if (selectors) {\n
        selectors.push(s);\n
    } else {\n
        selectors\n
= [ s ];\n
    }\n
    parserInput.commentStore.length = 0;\n
    if (s.condition &&\n
selectors.length > 1) {\n
        error("\nGuards are only currently allowed on a single selector.\n");\n
    }\n
    if (!parserInput.$char(',')) { break; }\n
    if (s.condition) {\n
        error("\nGuards\n
are only currently allowed on a single selector.\n");\n
    }\n
    parserInput.commentStore.length =\n
0;\n
    }\n
    return selectors;\n
},\n
attribute: function () {\n
    if\n
(!parserInput.$char('=')) { return; }\n\n
    const entities = this.entities;\n
    let key;\n
    let val;\n
    let op;\n
    /\n
    // case-insensitive flag\n
    // e.g. [attr operator value i]\n
    /\n
    let\n
cif;\n\n
    if (!(key = entities.variableCurly())) {\n
        key = expect(/^(?:[_A-Za-z0-9-\n
\\*]*\\|)?(?:[_A-Za-z0-9-\\|\\|\\.]+)/);\n
    }\n\n
    op = parserInput.$re(/^[-*$^]?=?);\n
    if (op)\n
{\n
        val = entities.quoted() || parserInput.$re(/^([0-9]+%/)\n
|| parserInput.$re(/^([\\w-]+)/)\n
||\n
entities.variableCurly());\n
        if (val) {\n
            cif = parserInput.$re(/^([iIsS])/);\n
        }\n
    }\n\n
    expectChar(')');\n\n
    return new(tree.Attribute)(key, op, val, cif);\n
},\n\n
/\n
    // The `block` rule is used by `ruleset` and `mixin.definition`.\n
    // It's a wrapper around the\n
    `primary` rule, with added `{}`.\n
    /\n
    block: function () {\n
        let content;\n
        if\n
(parserInput.$char('{') && (content = this.primary()) && parserInput.$char('}')) {\n
            return content;\n
        }\n
    },\n\n
    blockRuleset: function() {\n
        let block =\n
this.block();\n\n
        if (block) {\n
            block = new tree.RuleSet(null, block);\n
        }\n
    }\n
return block;\n
},\n\n
detachedRuleset: function() {\n
    let argInfo;\n
    let params;\n
    let variadic;\n
    parserInput.save();\n
    if (parserInput.$re(/^[#]\\|\\|/) {\n
        /**\n
        * DR args currently only implemented for each() function, and not\n
        * yet settable as `@dr:\n
#@arg) {}`\n
        * This should be done when DRs are merged with mixins.\n
        * See:\n
https://github.com/less/less-meta/issues/16\n
        *\n
        argInfo = this.mixin.args(false);\n
        params = argInfo.args;\n
        variadic = argInfo.variadic;\n
        if (!parserInput.$char('')) {\n
            parserInput.restore();\n
            return;\n
        }\n
    }\n
    const blockRuleset = this.blockRuleset();\n
    if\n
(blockRuleset) {\n
        parserInput.forget();\n
        if (params) {\n
            return new\n
tree.mixin.Definition(null, params, blockRuleset, null, variadic);\n
        }\n
        return new\n
tree.DetachedRuleSet(blockRuleset);\n
    }\n
    parserInput.restore();\n
},\n\n
/\n
// div, .class, body > p {...}\n
/\n
ruleset: function () {\n
    let selectors;\n
    let rules;\n
    let debugInfo;\n
    parserInput.save();\n
    if (context.dumpLineNumbers) {\n
debugInfo = getDebugInfo(parserInput.i);\n
    }\n\n
    selectors = this.selectors();\n
    if (selectors && (rules = this.block())) {\n
        parserInput.forget();\n
        const ruleset = new(tree.RuleSet)(selectors, rules, context.strictImports);\n
        if (context.dumpLineNumbers) {\n
            ruleset.debugInfo = debugInfo;\n
        }\n
    }\n
return ruleset;\n
} else {\n
    parserInput.restore();\n
    }\n
},\n
declaration:\n
function () {\n
    let name;\n
    let value;\n
    const index = parserInput.i;\n
    let

```

```

hasDR;\n          const c = parserInput.currentChar();\n          let important;\n          let merge;\nlet isVariable;\n          if (c === '.' || c === '#' || c === '&' || c === ':') { return; }\nparserInput.save();\n          name = this.variable() || this.ruleProperty();\n          if (name) {\n            isVariable = typeof name\n            === 'string';\n            if (isVariable) {\n              value = this.detachedRuleset();\n            }\n            (value) {\n              hasDR = true;\n            }\nparserInput.commentStore.length = 0;\n          if (!value) {\n            // a name returned by\n            this.ruleProperty() is always an array of the form:\n            // [string-1, ..., string-n, \"\"] or [string-1, ..., string-n, \"+\"]\n            // where each item is a tree.Keyword or tree.Variable\n            merge =\n            !isVariable && name.length > 1 && name.pop().value;\n            // Custom property values get permissive\n            parsing\n            if (name[0].value && name[0].value.slice(0, 2) === '--') {\n              value = this.permissiveValue();\n            }\n            // Try to store values as anonymous\n            // If we need the value later we'll re-parse it in ruleset.parseValue\n            else {\n              value = this.anonymousValue();\n            }\n            if (value) {\nparserInput.forget();\n              // anonymous values absorb the end ';' which is required for them to work\n              return new(tree.Declaration)(name, value, false, merge, index, fileInfo);\n            }\n            if (!value) {\n              value = this.value();\n            }\n            if (value) {\n              important = this.important();\n            } else if (isVariable) {\n              // As a last resort, try\n              permissiveValue\n              value = this.permissiveValue();\n            }\n            if (value && (this.end() || hasDR)) {\n              parserInput.forget();\n              return new(tree.Declaration)(name, value, important, merge, index, fileInfo);\n            }\n            else {\n              parserInput.restore();\n            },\n            }\nanonymousValue: function () {\n          const index = parserInput.i;\n          const match =\n          parserInput.$re(/^([\^#@\\$+\\|\"*\"(;{}-]*);)/);\n          if (match) {\n            return\n            new(tree.Anonymous)(match[1], index);\n          },\n          /**\n          * Used for custom\n          properties, at-rules, and variables (as fallback)\n          * Parses almost anything inside\n          of {} [] () \"\" blocks\n          * until it reaches outer-most tokens.\n          * \n          * First, it will try to parse\n          comments and entities to reach\n          * the end. This is mostly like the Expression parser except no\n          * math is allowed.\n          */\n          permissiveValue: function (untilTokens) {\n            let i;\n            let e;\n            let done;\n            let value;\n            const tok = untilTokens || ';';\n            const index =\n            parserInput.i;\n            const result = [];\n            function testCurrentChar() {\n              const char =\n              parserInput.currentChar();\n              if (typeof tok === 'string') {\n                return char === tok;\n              }\n              else {\n                return tok.test(char);\n              }\n            }\n            if (testCurrentChar()) {\n              return;\n            }\n            value = [];\n            do {\n              e = this.comment();\n              if (e) {\n                value.push(e);\n                continue;\n              }\n              e = this.entity();\n              if (e) {\n                value.push(e);\n              }\n            } while (e);\n            done = testCurrentChar();\n            if\n            (value.length > 0) {\n              value = new(tree.Expression)(value);\n            }\n            if (done) {\n              return value;\n            }\n            else {\n              result.push(value);\n            }\n            //\n            Preserve space before $parseUntil as it will not\n            if (parserInput.prevChar() === ' ') {\n              result.push(new tree.Anonymous(' ', index));\n            }\n            parserInput.save();\n            value = parserInput.$parseUntil(tok);\n            if (value) {\n              if (typeof value === 'string')\n              {\n                error(`Expected '${value}', 'Parse');\n              }\n              if (value.length === 1 && value[0] === ' ')\n              {\n                parserInput.forget();\n                return new tree.Anonymous(' ', index);\n              }\n              let item;\n              for (i = 0; i < value.length; i++) {\n                item = value[i];\n                if (Array.isArray(item)) {\n                  // Treat actual quotes as normal quoted values\n                  result.push(new tree.Quoted(item[0], item[1], true, index, fileInfo));\n                }\n              }\n            } else {\n
```

```

        if (i === value.length - 1) {
            item = item.trim();
            // Treat like quoted values, but replace vars like unquoted expressions
            quote = new tree.Quoted("\", item, true, index, fileInfo);
            quote.variableRegex = /@([\w-]+)/g;
            quote.propRegex = /\$(\w+)/g;
            result.push(quote);
        }
        parserInput.forget();
        return new tree.Expression(result, true);
    }
    parserInput.restore();
    // An @import atrule
    // Depending on our environment, importing is done differently:
    // In the browser, it's an XHR request, in Node, it would be a file-system operation. The function used for
    // importing is stored in `import`, which we pass
    // to the Import constructor.
    'import': function () {
        let path;
        let features;
        const index = parserInput.i;
        const dir = parserInput.$re(/^@import\s+/);
        if (dir) {
            const options = (dir ? this.importOptions() : null) || {};
            if ((path = this.entities.quoted() || this.entities.url())) {
                features = this.mediaFeatures();
                if (!parserInput.$char(';')) {
                    parserInput.i = index;
                    error('missing semi-colon or unrecognised media features on import');
                }
                features = features && new(tree.Value)(features);
            }
            return new(tree.Import)(path, features, options, index, fileInfo);
        } else {
            parserInput.i = index;
            error('malformed import statement');
        }
    },
    importOptions: function () {
        let o;
        const options = {};
        let optionName;
        // list of options, surrounded by parens
        if (!parserInput.$char('(')) { return null; }
        do {
            o = this.importOption();
            if (o) {
                optionName = o;
                value = true;
                switch (optionName) {
                    case 'css':
                        optionName = 'less';
                        value = false;
                        break;
                    case 'once':
                        optionName = 'multiple';
                        value = false;
                        break;
                }
                options[optionName] = value;
            }
        } while (o);
        expectChar(')');
        return options;
    },
    importOption: function () {
        const opt = parserInput.$re(/^(less|css|multiple|once|inline|reference|optional)/);
        if (opt) {
            return opt[1];
        }
        mediaFeature: function () {
            const entities = this.entities;
            const nodes = [];
            let e;
            let p;
            parserInput.save();
            do {
                e = entities.keyword() || entities.variable() || entities.mixinLookup();
                if (e) {
                    nodes.push(e);
                } else if (parserInput.$char('(')) {
                    p = this.property();
                    e = this.value();
                    if (parserInput.$char(')')) {
                        if (p && e) {
                            nodes.push(new(tree.Paren)(new(tree.Declaration)(p, e, null, null, parserInput.i, fileInfo, true)));
                        } else if (e) {
                            nodes.push(new(tree.Paren)(e));
                        } else {
                            error('Missing closing \)\", 'Parse');
                        }
                    }
                } while (e);
                parserInput.forget();
                if (nodes.length > 0) {
                    return new(tree.Expression)(nodes);
                }
            }
            const entities = this.entities;
            const features = [];
            let e;
            do {
                e = this.mediaFeature();
                if (e) {
                    features.push(e);
                } else if (!parserInput.$char(';')) {
                    } else {
                        e = entities.variable() || entities.mixinLookup();
                        if (e) {
                            features.push(e);
                        }
                    } while (e);
                return features.length > 0 ? features : null;
            }
            let media;
            let debugInfo;
            const index = parserInput.i;
            if (context.dumpLineNumbers) {
                debugInfo = getDebugInfo(index);
            }

```

```

    }\n\n        parserInput.save();\n\n        if (parserInput.$str('@media')) {\n            features =\nthis.mediaFeatures();\n\n            rules = this.block();\n\n            if (!rules) {\n                error('media\ndefinitions require block statements after any features');\n            }\n\n            parserInput.forget();\n\n            media = new(tree.Media)(rules, features, index, fileInfo);\n\n            if (context.dumpLineNumbers) {\n                media.debugInfo = debugInfo;\n            }\n\n            return media;\n        }\n\n        parserInput.restore();\n    },\n\n    //\n\n    // A @plugin directive, used to import plugins\n    dynamically.\n\n    //\n\n    // @plugin (args) \"lib\";\n\n    //\n\n    plugin: function () {\n        let\npath;\n\n        let args;\n\n        let options;\n\n        const index = parserInput.i;\n\n        const dir =\nparserInput.$re(/^@plugin\\s+/);\n\n        if (dir) {\n            args = this.pluginArgs();\n\n            if\n(args) {\n                options = {\n                    pluginArgs: args,\n                    isPlugin: true\n                };\n            }\n\n            else {\n                options = { isPlugin: true };\n            }\n\n            if ((path = this.entities.quoted() || this.entities.url())) {\n                if (!parserInput.$char(';')) {\n                    parserInput.i = index;\n                    error('missing semi-colon on @plugin');\n                }\n\n                return new(tree.Import)(path, null, options, index, fileInfo);\n            }\n\n            else {\n                parserInput.i = index;\n                error('malformed @plugin statement');\n            }\n        }\n    },\n\n    pluginArgs: function() {\n        // list of options, surrounded by parens\n        parserInput.save();\n\n        if (!parserInput.$char('(')) {\n            parserInput.restore();\n\n            return\nnull;\n        }\n\n        const args = parserInput.$re(/^[^\\s*(\\s*|)]+\\s*/);\n\n        if (args[1]) {\n            parserInput.forget();\n\n            return args[1].trim();\n        }\n\n        else {\n            parserInput.restore();\n\n            return null;\n        }\n    },\n\n    //\n\n    // A CSS AtRule\n    //\n\n    // @charset \"utf-8\";\n\n    //\n\n    atrule: function () {\n        const index =\nparserInput.i;\n\n        let name;\n\n        let value;\n\n        let rules;\n\n        let nonVendorSpecificName;\n\n        let hasIdentifier;\n\n        let hasExpression;\n\n        let hasUnknown;\n\n        let hasBlock = true;\n\n        let isRooted =\ntrue;\n\n        if (parserInput.currentChar() !== '@') {\n            return;\n        }\n\n        value = this['import']() ||\nthis.plugin() || this.media();\n\n        if (value) {\n            return value;\n        }\n\n        parserInput.save();\n\n        name = parserInput.$re(/^@[a-z-]+/);\n\n        if (!name) {\n            return;\n        }\n\n        nonVendorSpecificName = name;\n\n        if (name.charAt(1) == '-' && name.indexOf('-', 2) > 0) {\n            nonVendorSpecificName = `@${name.slice(name.indexOf('-', 2) + 1)}`;\n        }\n\n        switch\n(nonVendorSpecificName) {\n            case '@charset':\n                hasIdentifier\n                = true;\n                hasBlock = false;\n                break;\n\n            case '@namespace':\n                hasExpression = true;\n                hasBlock = false;\n                break;\n\n            case '@keyframes':\n                case\n                '@counter-style':\n                    hasIdentifier = true;\n                    break;\n\n            case\n                '@document':\n                    case '@supports':\n                        hasUnknown = true;\n                        isRooted =\n                        false;\n                        break;\n\n            default:\n                hasUnknown = true;\n                break;\n        }\n\n        }\n\n        parserInput.commentStore.length = 0;\n\n        if (hasIdentifier) {\n            value =\nthis.entity();\n\n            if (!value) {\n                error(`expected ${name} identifier`);\n            }\n\n            } else if (hasExpression) {\n                value = this.expression();\n\n                if (!value) {\n                    error(`expected ${name} expression`);\n                }\n\n            } else if (hasUnknown) {\n                value = this.permissiveValue(/^[{;}/]);\n\n                hasBlock = (parserInput.currentChar() === '{');\n\n                if\n                (!value) {\n                    if (!hasBlock && parserInput.currentChar() !== ';') {\n                        error(`${name}\nrule is missing block or ending semi-colon`);\n                    }\n                }\n\n                else if (!value.value)\n                {\n                    value = null;\n                }\n            }\n\n            if (hasBlock) {\n                rules =\nthis.blockRuleset();\n\n                }\n\n            if (rules || (!hasBlock && value && parserInput.$char(';'))) {\n                parserInput.forget();\n\n                return new(tree.AtRule)(name, value, rules, index, fileInfo,\ncontext.dumpLineNumbers\n? getDebugInfo(index) : null,\n                isRooted\n                );\n            }\n        }\n    }\n}

```

```

parserInput.restore('at-rule options not recognised');\n      },\n      /\n      // A Value is a comma-
delimited list of Expressions\n      /\n      // font-family: Baskerville, Georgia, serif;\n      /\n      //
In a Rule, a Value represents everything after the `:`,\n      // and before the `;`.\n      /\n      value:
function () {\n      let e;\n      const expressions = [];\n      const index = parserInput.i;\n      do {\n      e = this.expression();\n      if (e) {\n      expressions.push(e);\n      if
(!parserInput.$char(',')) { break; }\n      }\n      } while (e);\n      if (expressions.length > 0) {\n      return
new(tree.Value)(expressions, index);\n      },\n      important: function () {\n      if
(parserInput.currentChar() === '!') {\n      return parserInput.$re(/^! *important/);\n      },\n      },\n      sub: function () {\n      let a;\n      let e;\n      parserInput.save();\n      if
(parserInput.$char('(')) {\n      a = this.addition();\n      if (a && parserInput.$char('')) {\n      parserInput.forget();\n      e = new(tree.Expression)([a]);\n      e.parens = true;\n      return e;\n      }\n      parserInput.restore('Expected \\')\n      return;\n      }\n      parserInput.restore();\n      },\n      multiplication: function () {\n      let m;\n      let a;\n      let op;\n      let
operation;\n      let isSpaced;\n      m = this.operand();\n      if (m) {\n      isSpaced =
parserInput.isWhitespace(-1);\n      while (true) {\n      if (parserInput.peek(/^\\|/)) {\n      break;\n      }\n      parserInput.save();\n      op = parserInput.$char('/')\n      || parserInput.$char('*') || parserInput.$str('/');\n      if (!op) { parserInput.forget(); break; }\n      a = this.operand();\n      if (!a) { parserInput.restore(); break; }\n      parserInput.forget();\n      m.parensInOp = true;\n      a.parensInOp = true;\n      operation = new(tree.Operation)(op,
[operation || m, a], isSpaced);\n      isSpaced = parserInput.isWhitespace(-1);\n      }\n      return operation || m;\n      },\n      },\n      addition: function () {\n      let m;\n      let a;\n      let op;\n      let operation;\n      let isSpaced;\n      m = this.multiplication();\n      if
(m) {\n      isSpaced = parserInput.isWhitespace(-1);\n      while (true) {\n      op =
parserInput.$re(/^\\[+\\]|\\s+/) || (!isSpaced && (parserInput.$char('+') || parserInput.$char('-')));\n      if
(!op) {\n      break;\n      }\n      a = this.multiplication();\n      if (!a)\n      {\n      break;\n      }\n      m.parensInOp = true;\n      a.parensInOp = true;\n      operation = new(tree.Operation)(op, [operation || m, a], isSpaced);\n      isSpaced = parserInput.isWhitespace(-1);\n      }\n      return operation || m;\n      },\n      },\n      conditions: function () {\n      let a;\n      let b;\n      const index = parserInput.i;\n      let condition;\n      a = this.condition(true);\n      if (a) {\n      while (true) {\n      if (!parserInput.peek(/^\\s*(not\\s*)?\\(/) || !parserInput.$char(',')) {\n      break;\n      }\n      b = this.condition(true);\n      if (!b) {\n      break;\n      }\n      condition = new(tree.Condition)('or', condition || a, b, index);\n      }\n      return condition || a;\n      },\n      },\n      condition: function (needsParens) {\n      let
result;\n      let logical;\n      let next;\n      function or() {\n      return
parserInput.$str('or');\n      }\n      result = this.conditionAnd(needsParens);\n      if (!result) {\n      return ;\n      }\n      logical = or();\n      if (logical) {\n      next =
this.condition(needsParens);\n      if (next) {\n      result = new(tree.Condition)(logical, result,
next);\n      } else {\n      return ;\n      }\n      }\n      return result;\n      },\n      conditionAnd: function (needsParens) {\n      let result;\n      let logical;\n      let
next;\n      const self
= this;\n      function insideCondition() {\n      const cond = self.negatedCondition(needsParens) ||
self.parenthesisCondition(needsParens);\n      if (!cond && !needsParens) {\n      return
self.atomicCondition(needsParens);\n      }\n      return cond;\n      }\n      function
and() {\n      return parserInput.$str('and');\n      }\n      result = insideCondition();\n

```

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if (!result) {\n
    return ;\n
}\n
logical = and();\n
if (logical) {\n
    next = this.conditionAnd(needsParens);\n
    if (next) {\n
        result =\n
        new(tree.Condition)(logical, result, next);\n
    } else {\n
        return ;\n
    }\n
}\n
return result;\n
},\n
negatedCondition:\n
function (needsParens) {\n
    if (parserInput.$str('not')) {\n
        const result =\n
        this.parenthesisCondition(needsParens);\n
        if (result) {\n
            result.negate = !result.negate;\n
        }\n
        return result;\n
    },\n
    parenthesisCondition: function (needsParens)\n
    {\n
        function tryConditionFollowedByParenthesis(me) {\n
            let body;\n
            parserInput.save();\n
            body = me.condition(needsParens);\n
            if (!body) {\n
                parserInput.restore();\n
                return ;\n
            }\n
            if (!parserInput.$char('')) {\n
                if (!body) {\n
                    parserInput.forget();\n
                    parserInput.restore();\n
                    return ;\n
                }\n
                parserInput.forget();\n
                return body;\n
            }\n
        }\n
        let body;\n
        parserInput.save();\n
        if (!parserInput.$str('(')) {\n
            parserInput.restore();\n
            return ;\n
        }\n
        body =\n
        tryConditionFollowedByParenthesis(this);\n
        if (body) {\n
            parserInput.forget();\n
            return body;\n
        }\n
        body = this.atomicCondition(needsParens);\n
        if (!body) {\n
            parserInput.restore();\n
            return ;\n
        }\n
        if (!parserInput.$char('')) {\n
            parserInput.restore(' expected ') got '${parserInput.currentChar()}';\n
            return ;\n
        }\n
        parserInput.forget();\n
        return body;\n
    },\n
    atomicCondition: function (needsParens) {\n
        const entities = this.entities;\n
        const index = parserInput.i;\n
        let a;\n
        let b;\n
        let c;\n
        let op;\n
        function cond() {\n
            return this.addition() || entities.keyword() || entities.quoted() || entities.mixinLookup();\n
        }\n
        cond\n
        = cond.bind(this);\n
        a = cond();\n
        if (a) {\n
            if (parserInput.$char('>')) {\n
                if (parserInput.$char('=')) {\n
                    op = '>=';\n
                } else {\n
                    op = '>';\n
                }\n
            }\n
            } else {\n
                if (parserInput.$char('<')) {\n
                    if (parserInput.$char('=')) {\n
                        op = '<=';\n
                    } else {\n
                        op = '<';\n
                    }\n
                }\n
            }\n
            else {\n
                if (parserInput.$char('=')) {\n
                    if (parserInput.$char('>')) {\n
                        op = '=>';\n
                    } else if (parserInput.$char('<')) {\n
                        op = '=<';\n
                    }\n
                } else {\n
                    op = '=';\n
                }\n
            }\n
        }\n
        if (op) {\n
            b = cond();\n
            if (b) {\n
                c = new(tree.Condition)(op, a, b, index, false);\n
            }\n
        } else {\n
            error('expected expression');\n
        }\n
        } else {\n
            c =\n
            new(tree.Condition)('=', a, new(tree.Keyword)('true'), index, false);\n
        }\n
        return c;\n
    }\n
},\n
//\n
// An operand is anything that can be part of an operation,\n
// such as a\n
Color, or a Variable\n
//\n
operand: function () {\n
    const entities = this.entities;\n
    let negate;\n
    if (parserInput.peek(/^-[@\\$\\(\\)/]) {\n
        negate = parserInput.$char('-');\n
    }\n
    let o = this.sub() || entities.dimension() ||\n
    entities.color() || entities.variable() ||\n
    entities.property() || entities.call() ||\n
    entities.quoted(true) || entities.colorKeyword() ||\n
    entities.mixinLookup();\n
    if (negate) {\n
        o.parensInOp = true;\n
        o = new(tree.Negative)(o);\n
    }\n
    return o;\n
},\n
//\n
// Expressions either represent mathematical operations,\n
// or white-space delimited\n
Entities.\n
//\n
// 1px solid black\n
// @var * 2\n
//\n
expression: function ()\n
{\n
    const entities = [];\n
    let e;\n
    let delim;\n
    const index = parserInput.i;\n
    do\n
    {\n
        e = this.comment();\n
        if (e) {\n
            entities.push(e);\n
        }\n
        continue;\n
    }\n
    e = this.addition() || this.entity();\n
    if (e instanceof\n
    tree.Comment) {\n
        e = null;\n
    }\n
    if (e) {\n
        entities.push(e);\n
        // operations do not allow keyword \"^\" dimension (e.g. small/20px) so we support that here\n
        if (!parserInput.peek(/^\\[\\/*\\/]) {\n
            delim = parserInput.$char('/');\n
            if

```

```

(delim) {\n
    entities.push(new(tree.Anonymous)(delim, index));\n
}\n
}\n
} while (e);\n
if (entities.length > 0) {\n
    return
new(tree.Expression)(entities);\n
}\n
},\n
property: function () {\n
    const name =
parserInput.$re(/^(\\*?-?[_a-zA-Z0-9-]+)\\s*/);\n
    if (name) {\n
        return name[1];\n
    }\n
},\n
ruleProperty: function () {\n
    let name = [];\n
    const index = [];\n
    let s;\n
    let k;\n
    parserInput.save();\n
    const simpleProperty = parserInput.$re(/^([_a-zA-Z0-9-
]+)\\s*/);\n
    if (simpleProperty) {\n
        name = [new(tree.Keyword)(simpleProperty[1]);\n
        parserInput.forget();\n
        return name;\n
    }\\n\\n
    function match(re) {\n
const i = parserInput.i;\n
    const
chunk = parserInput.$re(re);\n
    if (chunk) {\n
        index.push(i);\n
        return
name.push(chunk[1]);\n
    }\\n
}\\n\\n
    match(/^(\\*?)/);\n
    while (true) {\n
        if (!match(/^(?:(\\w-)|(?:[@\\$\\{[\\w-]+\\})))/) {\n
            break;\n
        }\\n
    }\\n\\n
    if ((name.length > 1) && match(/^(?:(\\w-|\\+)?)\\s*/)) {\n
        parserInput.forget();\\n\\n
        // at
last, we have the complete match now. move forward,\\n
        // convert name particles to tree objects and
return:\\n
        if (name[0] === ") {\n
            name.shift();\n
            index.shift();\n
        }\\n
        for (k = 0; k < name.length; k++) {\n
            s = name[k];\n
            name[k] =
(s.charAt(0) !== '@' && s.charAt(0)
            !== '$') ?\n
            new(tree.Keyword)(s) :\n
            (s.charAt(0) === '@' ?\n
new(tree.Variable)(`@${s.slice(2, -1)}`, index[k], fileInfo) :\n
            new(tree.Property)(`${s.slice(2, -
1)}`, index[k], fileInfo));\n
        }\\n
        return name;\n
    }\\n
    parserInput.restore();\n
}\\n
}\\n
};\\n};\\n\nParser.serializeVars = vars => {\n
    let s = ";\n
    for (const name in vars) {\n
        if
(Object.hasOwnProperty.call(vars, name)) {\n
            const value = vars[name];\n
            s += `${((name[0] === '@')
? " : '@') + name} : ${value}${(String(value).slice(-1) === ';') ? " : ';'}`;\n
        }\\n
    }\\n\\n
    return s;\n
};\\n\\n\nexport
default Parser;\n", "import Anonymous from './tree/anonymous';\nimport Keyword from
'./tree/keyword';\n\nfunction boolean(condition) {\n
    return condition ? Keyword.True :
Keyword.False;\n
}\\n\\n\n/**\n
 * Functions with evalArgs set to false are sent context\n
 * as the first argument.\n
 */\n\nfunction If(context, condition,
trueValue, falseValue) {\n
    return condition.eval(context) ? trueValue.eval(context)\n
    : (falseValue ?
falseValue.eval(context) : new Anonymous);\n
}\n\nfunction isdefined(context, variable) {\n
try {\n
    variable.eval(context);\n
    return Keyword.True;\n
} catch (e) {\n
    return Keyword.False;\n
}\\n\\n\nisdefined.evalArgs = false;\n\nexport default { isdefined, boolean, 'if: If';\n}, "import Dimension from
'./tree/dimension';\nimport Color from './tree/color';\nimport Quoted from './tree/quoted';\nimport Anonymous
from './tree/anonymous';\nimport Expression from './tree/expression';\nimport Operation from
'./tree/operation';\n\nlet colorFunctions;\n\nfunction clamp(val) {\n
    return Math.min(1, Math.max(0,
val));\n
}\n\nfunction hsla(origColor, hsl) {\n
    const color = colorFunctions.hsla(hsl.h,
hsl.s, hsl.l, hsl.a);\n
    if (color) {\n
        if (origColor.value && \n
        /^(rgb|hsl)/.test(origColor.value)) {\n
            color.value = origColor.value;\n
        } else {\n
            color.value = 'rgb';\n
        }\\n
        return color;\n
    }\\n\\n\nfunction toHSL(color) {\n
    if (color.toHSL) {\n
        return color.toHSL();\n
    } else {\n
        throw new
Error('Argument cannot be evaluated to a color');\n
    }\\n\\n\nfunction toHSV(color) {\n
    if (color.toHSV) {\n
        return color.toHSV();\n
    } else {\n
        throw new
Error('Argument cannot be evaluated to a color');\n
    }\\n\\n\nfunction number(n) {\n
    if (n instanceof Dimension) {\n
        return parseFloat(n.unit.is('%') ? n.value / 100
: n.value);\n
    } else if (typeof n === 'number') {\n
        return n;\n
    } else {\n
        throw {\n
            type:
'Argument',\n
            message: 'color functions take numbers as parameters'\n
        };\\n
    }\\n\\n\nfunction scaled(n,
size) {\n
    if (n instanceof
Dimension && n.unit.is('%')) {\n
        return parseFloat(n.value * size / 100);\n
    } else {\n
        return number(n);\n
    }\\n\\n\ncolorFunctions = {\n
    rgb: function (r, g, b) {\n
        let a = 1\n
        /**\n
         * Comma-less syntax\n
         *
e.g. rgb( 0 128 255 / 50%)\n
         */\n
        if (r instanceof Expression) {\n
            const val = r.value\n
            r =

```

```

val[0]\n      g = val[1]\n      b = val[2]\n      /** \n      * @todo - should this be normalized in\n
* function caller? Or parsed differently?\n      *^\n      if (b instanceof Operation) {\n      const op =
b\n      b = op.operands[0]\n      a = op.operands[1]\n      }\n      }\n      const color =
colorFunctions.rgba(r, g, b, a);\n      if (color) {\n      color.value = 'rgb';\n      return color;\n      }\n      },\n
rgba: function (r, g, b, a) {\n      try {\n      if (r instanceof
Color) {\n      if (g) {\n      a = number(g);\n      } else {\n      a = r.alpha;\n
}\n      return new Color(r.rgb, a, 'rgba');\n      }\n      const rgb = [r, g, b].map(c => scaled(c, 255));\n
a = number(a);\n      return new Color(rgb, a, 'rgba');\n      }\n      catch (e) {\n      },\n      hsl: function (h, s,
l) {\n      let a = 1\n      if (h instanceof Expression) {\n      const val = h.value\n      h = val[0]\n      s =
val[1]\n      l = val[2]\n      if (l instanceof Operation) {\n      const op = l\n      l =
op.operands[0]\n      a = op.operands[1]\n      }\n      }\n      const color = colorFunctions.hsla(h, s, l,
a);\n      if (color) {\n      color.value = 'hsl';\n      return color;\n      }\n      },\n      hsla: function (h, s, l, a) {\n
try {\n      if (h instanceof
Color) {\n      if (s) {\n      a = number(s);\n      } else {\n      a = h.alpha;\n
}\n      return new Color(h.rgb, a, 'hsla');\n      }\n      let m1;\n      let m2;\n      function
hue(h) {\n      h = h < 0 ? h + 1 : (h > 1 ? h - 1 : h);\n      if (h * 6 < 1) {\n      return m1 + (m2 -
m1) * h * 6;\n      }\n      else if (h * 2 < 1) {\n      return m2;\n      }\n      else if (h
* 3 < 2) {\n      return m1 + (m2 - m1) * (2 / 3 - h) * 6;\n      }\n      else {\n      return
m1;\n      }\n      }\n      h = (number(h) % 360) / 360;\n      s = clamp(number(s));\n      l =
clamp(number(l));\n      a = clamp(number(a));\n      m2 = 1 <= 0.5 ? 1 * (s + 1) : 1 + s - 1 * s;\n      m1 = 1 * 2 -
m2;\n      const rgb =
[\n      hue(h + 1 / 3) * 255,\n      hue(h) * 255,\n      hue(h - 1 / 3) * 255\n      ];\n      a
= number(a);\n      return new Color(rgb, a, 'hsla');\n      }\n      catch (e) {\n      },\n      hsv: function(h, s, v)
{\n      return colorFunctions.hsva(h, s, v, 1.0);\n      },\n      hsva: function(h, s, v, a) {\n      h = ((number(h) %
360) / 360) * 360;\n      s = number(s);v = number(v);a = number(a);\n      let i;\n      let f;\n      i =
Math.floor((h / 60) % 6);\n      f = (h / 60) - i;\n      const vs = [v,\n      v * (1 - s),\n      v * (1 - f * s),\n
v * (1 - (1 - f) * s)];\n      const perm = [[0, 3, 1],\n      [2, 0, 1],\n      [1, 0, 3],\n      [1, 2, 0],\n
[3, 1, 0],\n      [0, 1, 2]];\n      return colorFunctions.rgba(vs[perm[i][0]] * 255,\n      vs[perm[i][1]] *
255,\n      vs[perm[i][2]] * 255,\n      a);\n      },\n
hue: function (color) {\n      return new Dimension(toHSL(color).h);\n      },\n      saturation: function (color) {\n
return new Dimension(toHSL(color).s * 100, '%');\n      },\n      lightness: function (color) {\n      return new
Dimension(toHSL(color).l * 100, '%');\n      },\n      hsvhue: function(color) {\n      return new
Dimension(toHSV(color).h);\n      },\n      hsvsaturation: function (color) {\n      return new
Dimension(toHSV(color).s * 100, '%');\n      },\n      hsvvalue: function (color) {\n      return new
Dimension(toHSV(color).v * 100, '%');\n      },\n      red: function (color) {\n      return new
Dimension(color.rgb[0]);\n      },\n      green: function (color) {\n      return new Dimension(color.rgb[1]);\n      },\n
blue: function (color) {\n      return new Dimension(color.rgb[2]);\n      },\n      alpha: function (color) {\n      return
new Dimension(toHSL(color).a);\n      },\n      luma: function (color) {\n      return new Dimension(color.luma() *
color.alpha
* 100, '%');\n      },\n      luminance: function (color) {\n      const luminance =\n      (0.2126 * color.rgb[0] / 255)
+\n      (0.7152 * color.rgb[1] / 255) +\n      (0.0722 * color.rgb[2] / 255);\n      return new
Dimension(luminance * color.alpha * 100, '%');\n      },\n      saturate: function (color, amount, method) {\n      //
filter: saturate(3.2);\n      // should be kept as is, so check for color\n      if (!color.rgb) {\n      return null;\n
}\n      const hsl = toHSL(color);\n      if (typeof method !== 'undefined' && method.value === 'relative') {\n
hsl.s += hsl.s * amount.value / 100;\n      }\n      else {\n      hsl.s += amount.value / 100;\n      }\n
hsl.s = clamp(hsl.s);\n      return hsla(color, hsl);\n      },\n      desaturate: function (color, amount, method) {\n
const hsl = toHSL(color);\n      if (typeof method !== 'undefined' && method.value === 'relative') {\n

```



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    hsl.s -= hsl.s * amount.value / 100;\n    }\n    else {\n        hsl.s -= amount.value / 100;\n    }\n
hsl.s = clamp(hsl.s);\n    return hsla(color, hsl);\n    },\n    lighten: function (color, amount, method) {\n        const
hsl = toHSL(color);\n        if (typeof method !== 'undefined' && method.value === 'relative') {\n            hsl.l +=
hsl.l * amount.value / 100;\n        }\n        else {\n            hsl.l += amount.value / 100;\n        }\n        hsl.l =
clamp(hsl.l);\n        return hsla(color, hsl);\n    },\n    darken: function (color, amount, method) {\n        const hsl =
toHSL(color);\n        if (typeof method !== 'undefined' && method.value === 'relative') {\n            hsl.l -= hsl.l *
amount.value / 100;\n        }\n        else {\n            hsl.l -= amount.value / 100;\n        }\n        hsl.l = clamp(hsl.l);\n
        return hsla(color, hsl);\n    },\n    fadein: function (color, amount, method) {\n        const hsl = toHSL(color);\n        if
(typeof method !== 'undefined' && method.value === 'relative') {\n            hsl.a += hsl.a * amount.value /
100;\n        }\n        else {\n            hsl.a += amount.value / 100;\n        }\n        hsl.a = clamp(hsl.a);\n        return
hsla(color, hsl);\n    },\n    fadeout: function (color, amount, method) {\n        const hsl = toHSL(color);\n        if
(typeof method !== 'undefined' && method.value === 'relative') {\n            hsl.a -= hsl.a * amount.value / 100;\n        }\n
        else {\n            hsl.a -= amount.value / 100;\n        }\n        hsl.a = clamp(hsl.a);\n        return hsla(color,
hsl);\n    },\n    fade: function (color, amount) {\n        const hsl = toHSL(color);\n        hsl.a = amount.value /
100;\n        hsl.a = clamp(hsl.a);\n        return hsla(color, hsl);\n    },\n    spin: function (color, amount) {\n        const
hsl = toHSL(color);\n        const hue = (hsl.h + amount.value) % 360;\n        hsl.h = hue < 0 ?
360 + hue : hue;\n        return hsla(color, hsl);\n    },\n    /\n    // Copyright (c) 2006-2009 Hampton Catlin, Natalie
Weizenbaum, and Chris Eppstein\n    // http://sass-lang.com\n    /\n    mix: function (color1, color2, weight) {\n        if
(!weight) {\n            weight = new Dimension(50);\n        }\n        const p = weight.value / 100.0;\n        const w =
p * 2 - 1;\n        const a = toHSL(color1).a - toHSL(color2).a;\n        const w1 = (((w * a === -1) ? w : (w + a) / (1 +
w * a)) + 1) / 2.0;\n        const w2 = 1 - w1;\n        const rgb = [color1.rgb[0] * w1 + color2.rgb[0] * w2,\n            color1.rgb[1] * w1 + color2.rgb[1] * w2,\n            color1.rgb[2] * w1 + color2.rgb[2] * w2];\n        const alpha =
color1.alpha * p + color2.alpha * (1 - p);\n        return new Color(rgb, alpha);\n    },\n    greyscale: function (color) {\n
        return colorFunctions.desaturate(color, new Dimension(100));\n    },\n    contrast: function (color, dark,
light, threshold) {\n        // filter: contrast(3.2);\n        // should be kept as is, so check for color\n        if (!color.rgb) {\n
            return null;\n        }\n        if (typeof light === 'undefined') {\n            light = colorFunctions.rgb(255, 255, 255, 1.0);\n
        }\n        if (typeof dark === 'undefined') {\n            dark = colorFunctions.rgb(0, 0, 0, 1.0);\n        }\n        // Figure
out which is actually light and dark:\n        if (dark.luma() > light.luma()) {\n            const t = light;\n            light =
dark;\n            dark = t;\n        }\n        if (typeof threshold === 'undefined') {\n            threshold = 0.43;\n        } else {\n
            threshold = number(threshold);\n        }\n        if (color.luma() < threshold) {\n            return light;\n        }
else {\n            return dark;\n        }\n    },\n    // Changes made in 2.7.0 - Reverted in 3.0.0\n    // contrast: function
(color, color1, color2, threshold) {\n        // // Return
which of `color1` and `color2` has the greatest contrast with `color`\n        // // according to the standard WCAG
contrast ratio calculation.\n        // // http://www.w3.org/TR/WCAG20/#contrast-ratiodef\n        // // The threshold
param is no longer used, in line with SASS.\n        // // filter: contrast(3.2);\n        // // should be kept as is, so check
for color\n        // // if (!color.rgb) {\n        // //     return null;\n        // // }\n        // // if (typeof color1 === 'undefined') {\n        // //
color1 = colorFunctions.rgb(0, 0, 0, 1.0);\n        // // }\n        // // if (typeof color2 === 'undefined') {\n        // //
color2 = colorFunctions.rgb(255, 255, 255, 1.0);\n        // // }\n        // // var contrast1, contrast2;\n        // // var luma =
color.luma();\n        // // var luma1 = color1.luma();\n        // // var luma2 = color2.luma();\n        // // // Calculate contrast
ratios for each color\n        // // if (luma > luma1) {\n        // //     contrast1 = (luma + 0.05) / (luma1 + 0.05);\n        // //
} else {\n        // //     contrast1 = (luma1 + 0.05) / (luma + 0.05);\n        // // }\n        // // if (luma > luma2) {\n        // //
contrast2 = (luma + 0.05) / (luma2 + 0.05);\n        // // } else {\n        // //     contrast2 = (luma2 + 0.05) / (luma +
0.05);\n        // // }\n        // // if (contrast1 > contrast2) {\n        // //     return color1;\n        // // } else {\n        // //
return color2;\n        // // }\n        // // },\n    argb: function (color) {\n        return new Anonymous(color.toARGB());\n    },\n
color: function (c) {\n        if ((c instanceof Quoted) &&\n            (/^#[A-Fa-f0-9]{8}|[A-Fa-f0-9]{6}|[A-Fa-f0-9]{3,4}$/.test(c.value))) {\n
            const val = c.value.slice(1);\n            return new Color(val, undefined,\n                `#${val}`);\n        }\n        if ((c instanceof Color) || (c = Color.fromKeyword(c.value))) {\n            c.value =

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undefined;\n      return c;\n    }\n    throw {\n      type: 'Argument',\n      message: 'argument\n      must be a color keyword or 3|4|6|8 digit hex e.g. #FFF'\n    };\n  },\n  tint: function(color, amount) {\n    return colorFunctions.mix(colorFunctions.rgb(255, 255, 255), color, amount);\n  },\n  shade: function(color,\n    amount) {\n    return colorFunctions.mix(colorFunctions.rgb(0, 0, 0), color, amount);\n  }\n};\n\nexport default\n    colorFunctions;\n", "import Color from './tree/color';\n\n// Color Blending\n// ref:\nhttp://www.w3.org/TR/compositing-1\nfunction colorBlend(mode, color1, color2) {\n  const ab = color1.alpha;\n  // result\n  let // backdrop\n    cb;\n  const as = color2.alpha;\n  let // source\n    cs;\n  let ar;\n  let cr;\n  const r = [];\n  ar = as + ab * (1 - as);\n  for (let i = 0; i < 3; i++) {\n    cb = color1.rgb[i] / 255;\n    cs = color2.rgb[i] / 255;\n    cr = mode(cb, cs);\n    if (ar) {\n      cr = (as * cs + ab * (cb -\n        as *\n        (cb + cs - cr))) / ar;\n    }\n    r[i] = cr * 255;\n  }\n  return new Color(r, ar);\n}\n\nconst colorBlendModeFunctions = {\n  multiply:\n    function(cb, cs) {\n      return cb * cs;\n    },\n  screen: function(cb, cs) {\n    return cb + cs - cb * cs;\n  },\n  overlay: function(cb, cs) {\n    cb *= 2;\n    return (cb <= 1) ?\n      colorBlendModeFunctions.multiply(cb,\n        cs) :\n      colorBlendModeFunctions.screen(cb - 1, cs);\n  },\n  softlight: function(cb, cs) {\n    let d = 1;\n    let e = cb;\n    if (cs > 0.5) {\n      e = 1;\n      d = (cb > 0.25) ? Math.sqrt(cb)\n        : ((16 * cb - 12)\n        * cb + 4) * cb;\n    }\n    return cb - (1 - 2 * cs) * e * (d - cb);\n  },\n  hardlight: function(cb, cs) {\n    return colorBlendModeFunctions.overlay(cs, cb);\n  },\n  difference: function(cb, cs) {\n    return Math.abs(cb -\n      cs);\n  },\n  exclusion: function(cb, cs) {\n    return cb + cs - 2 * cb * cs;\n  },\n  // non-w3c functions:\n  average: function(cb, cs) {\n    return (cb + cs) / 2;\n  },\n  negation: function(cb, cs)\n  {\n    return 1 - Math.abs(cb + cs - 1);\n  }\n};\n\nfor (const f in colorBlendModeFunctions) {\n  if\n    (colorBlendModeFunctions.hasOwnProperty(f)) {\n    colorBlend[f] = colorBlend.bind(null,\n      colorBlendModeFunctions[f]);\n  }\n}\n\nexport default colorBlend;\n", "import Comment from\n    './tree/comment';\nimport Node from './tree/node';\nimport Dimension from './tree/dimension';\nimport Declaration\n    from './tree/declaration';\nimport Expression from './tree/expression';\nimport Ruleset from './tree/ruleset';\nimport Selector\n    from './tree/selector';\nimport Element from './tree/element';\nimport Quote from './tree/quoted';\nimport Value\n    from './tree/value';\n\nconst getItemsFromNode = node => {\n  // handle non-array values as an array of\n  length 1\n  // return 'undefined' if index is invalid\n  const items = Array.isArray(node.value) ?\n    node.value : Array(node);\n  return items;\n};\n\nexport default {\n  _SELF: function(n) {\n    return n;\n  },\n  '~': function(...expr) {\n    if (expr.length === 1) {\n      return expr[0];\n    }\n    return new\n      Value(expr);\n  },\n  extract: function(values, index) {\n    // (1-based index)\n    index = index.value - 1;\n    return getItemsFromNode(values)[index];\n  },\n  length: function(values) {\n    return new\n      Dimension(getItemsFromNode(values).length);\n  },\n  /**\n   * Creates a Less list of incremental values.\n   * Modeled after Lodash's range function, also exists natively in PHP\n   * @param {Dimension} [start=1]\n   * @param {Dimension} end - e.g. 10 or 10px - unit is added to output\n   * @param {Dimension} [step=1]\n   */\n  range: function(start, end, step) {\n    let from;\n    let to;\n    let stepValue = 1;\n    const list = [];\n    if (end) {\n      to = end;\n      from = start.value;\n      if (step) {\n        stepValue = step.value;\n      }\n    }\n    else {\n      from = 1;\n      to = start;\n    }\n    for (let i = from; i <= to.value; i += stepValue)\n      list.push(new Dimension(i, to.unit));\n    return new Expression(list);\n  },\n  each:\n    function(list, rs) {\n      const rules = [];\n      let newRules;\n      let iterator;\n      const tryEval = val => {\n        if (val instanceof Node) {\n          return val.eval(this.context);\n        }\n        return val;\n      };\n      if (list.value && !(list instanceof Quote)) {\n        if (Array.isArray(list.value)) {\n          iterator =\n            list.value.map(tryEval);\n        } else {\n          iterator = [tryEval(list.value)];\n        } else if\n          (list.ruleset) {\n          iterator = tryEval(list.ruleset).rules;\n        } else if (list.rules) {\n          iterator = list.rules.map(tryEval);\n        } else if (Array.isArray(list)) {\n          iterator = list.map(tryEval);\n        } else {\n          iterator = [tryEval(list)];\n        }\n      }\n      let valueName\n        = '@value';\n      let keyName = '@key';\n      let indexName = '@index';\n      if (rs.params) {\n        valueName = rs.params[0] && rs.params[0].name;\n        keyName = rs.params[1] && rs.params[1].name;\n      }\n    }\n  }\n};

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    indexName = rs.params[2] && rs.params[2].name;\n      rs = rs.rules;\n    } else {\n      rs = rs.ruleset;\n    }\n    for (let i = 0; i < iterator.length; i++) {\n      let key;\n      let value;\n      const item =\n      iterator[i];\n      if (item instanceof Declaration) {\n        key = typeof item.name === 'string' ? item.name :\n        item.name[0].value;\n        value = item.value;\n      } else {\n        key = new\n        Dimension(i + 1);\n        value = item;\n      }\n      if (item instanceof Comment) {\n        continue;\n      }\n      newRules = rs.rules.slice(0);\n      if (valueName) {\n        newRules.push(new Declaration(valueName,\n        value,\n        false, false, this.index,\n        this.currentFileInfo));\n      }\n      if (indexName) {\n        newRules.push(new\n        Declaration(indexName,\n        new Dimension(i + 1),\n        false, false, this.index,\n        this.currentFileInfo));\n      }\n      if (keyName) {\n        newRules.push(new Declaration(keyName,\n        key,\n        false, false, this.index, this.currentFileInfo));\n      }\n      rules.push(new\n      Ruleset([\n        new(Selector)([ new Element("\\", '&') ]),\n        newRules,\n        rs.strictImports,\n        rs.visibilityInfo()\n      ]);\n    }\n    return new Ruleset([\n      new(Selector)([ new Element("\\", '&') ]),\n      rules,\n      rs.strictImports,\n      rs.visibilityInfo()\n    ]).eval(this.context);\n  }\n};\n","import Dimension from\n'../tree/dimension';\n\nconst MathHelper = (fn, unit, n) => {\n  if (!(n instanceof Dimension)) {\n    throw { type:\n    'Argument', message: 'argument must be a number' };\n  }\n  if (unit === null) {\n    unit = n.unit;\n  } else {\n    n = n.unify();\n  }\n  return new Dimension(fn(parseFloat(n.value)), unit);\n};\n\nexport default\nMathHelper;\n","import mathHelper from './math-helper.js';\n\nconst mathFunctions = {\n  // name, unit\n  ceil:\n  null,\n  floor: null,\n  sqrt: null,\n  abs: null,\n  tan: " ,\n  sin: " ,\n  cos: " ,\n  atan: 'rad',\n  asin: 'rad',\n  acos: 'rad'\n};\n\nfor (const f in mathFunctions) {\n  if (mathFunctions.hasOwnProperty(f)) {\n    mathFunctions[f]\n    = mathHelper.bind(null, Math[f], mathFunctions[f]);\n  }\n}\n\nmathFunctions.round = (n, f) => {\n  const\n  fraction = typeof f === 'undefined' ? 0 : f.value;\n  return mathHelper(num => num.toFixed(fraction), null,\n  n);\n};\n\nexport default mathFunctions;\n","import Dimension from './tree/dimension';\n\nimport Anonymous from\n'../tree/anonymous';\n\nimport mathHelper from './math-helper.js';\n\nconst minMax = function (isMin, args) {\n  args = Array.prototype.slice.call(args);\n  switch (args.length) {\n    case 0: throw { type: 'Argument', message:\n    'one or more arguments required' };\n  }\n  let i; // key is the unit.toString() for unified Dimension values,\n  let\n  j;\n  let current;\n  let currentUnified;\n  let referenceUnified;\n  let unit;\n  let unitStatic;\n  let unitClone;\n\n  const // elems only contains original argument values.\n  order = [];\n  const values = {};\n  // value is the\n  index into the order array.\n  for (i = 0; i < args.length;\n  i++) {\n    current = args[i];\n    if (!(current instanceof Dimension)) {\n      if (Array.isArray(args[i].value))\n      {\n        Array.prototype.push.apply(args, Array.prototype.slice.call(args[i].value));\n      }\n      continue;\n    }\n    currentUnified = current.unit.toString() === " && unitClone !== undefined ? new\n    Dimension(current.value, unitClone).unify() : current.unify();\n    unit = currentUnified.unit.toString() === " && unitStatic !== undefined ? unitStatic : currentUnified.unit.toString();\n    unitStatic = unit !== " && unitStatic\n    === undefined || unit !== " && order[0].unify().unit.toString() === " ? unit : unitStatic;\n    unitClone = unit !== "\n    && unitClone === undefined ? current.unit.toString() : unitClone;\n    j = values[""] !== undefined && unit !== "\n    && unit === unitStatic ? values[""] : values[unit];\n    if (j === undefined) {\n      if (unitStatic !== undefined\n      && unit !== unitStatic)\n      {\n        throw { type: 'Argument', message: 'incompatible types' };\n      }\n      values[unit] =\n      order.length;\n      order.push(current);\n      continue;\n    }\n    referenceUnified =\n    order[j].unit.toString() === " && unitClone !== undefined ? new Dimension(order[j].value, unitClone).unify() :\n    order[j].unify();\n    if (isMin && currentUnified.value < referenceUnified.value ||\n    !isMin &&\n    currentUnified.value > referenceUnified.value) {\n      order[j] = current;\n    }\n  }\n  if (order.length === 1)\n  {\n    return order[0];\n  }\n  args = order.map(function (a) { return a.toCSS(this.context);\n  }).join(this.context.compress ? ',' : ', ');\n  return new Anonymous(`${isMin ? 'min' :\n  'max'}(${args})`);\n};\n\nexport default {\n  min: function(...args) {\n    try {\n      return minMax(true,\n
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args);\n    } catch (e) {};\n  },\n  max: function(...args) {\n    try {\n      return minMax(false, args);\n    } catch (e) {};\n  },\n  convert: function (val, unit) {\n    return\n    val.convertTo(unit.value);\n  },\n  pi: function () {\n    return new Dimension(Math.PI);\n  },\n  mod:\n  function(a, b) {\n    return new Dimension(a.value % b.value, a.unit);\n  },\n  pow: function(x, y) {\n    if\n    (typeof x === 'number' && typeof y === 'number') {\n      x = new Dimension(x);\n      y = new\n      Dimension(y);\n    } else if (!(x instanceof Dimension) || !(y instanceof Dimension)) {\n      throw { type:\n      'Argument', message: 'arguments must be numbers' };\n    }\n    return new Dimension(Math.pow(x.value,\n    y.value), x.unit);\n  },\n  percentage: function (n) {\n    const result = mathHelper(num => num * 100, '%',\n    n);\n    return result;\n  };\n};\n\n", "import Quoted from './tree/quoted';\nimport Anonymous from\n './tree/anonymous';\nimport JavaScript from './tree/javascript';\n\nexport default\n {\n   e: function (str) {\n     return new Quoted("\\", str instanceof JavaScript ? str.evaluated : str.value, true);\n   },\n   escape: function (str) {\n     return new Anonymous(\n       encodeURI(str.value).replace(/=/g,\n       '%3D').replace(/:/g, '%3A').replace(/#/g, '%23').replace(/;/g, '%3B')\n       .replace(/\\(/g, '%28').replace(/\\)/g,\n       '%29'));\n   },\n   replace: function (string, pattern, replacement, flags) {\n     let result = string.value;\n     replacement = (replacement.type === 'Quoted') ?\n       replacement.value : replacement.toCSS();\n     result =\n     result.replace(new RegExp(pattern.value, flags ? flags.value : ''), replacement);\n     return new\n     Quoted(string.quote || "", result, string.escaped);\n   },\n   '%': function (string /* arg, arg, ... */) {\n     const args =\n     Array.prototype.slice.call(arguments, 1);\n     let result = string.value;\n     for (let i = 0; i < args.length; i++)\n       /* jshint loopfunc:true\n       */\n       result = result.replace(/%[sda]/i, token => {\n         const value = ((args[i].type === 'Quoted') &&\n         token.match(/s/i) ? args[i].value : args[i].toCSS());\n         return token.match(/[A-Z]$/ ?\n         encodeURIComponent(value) : value);\n       });\n     result = result.replace(/%%/g, '%');\n     return\n     new Quoted(string.quote || "", result, string.escaped);\n   };\n};\n\n", "import Keyword from './tree/keyword';\nimport\n DetachedRuleset from './tree/detached-ruleset';\nimport Dimension from './tree/dimension';\nimport Color from\n './tree/color';\nimport Quoted from './tree/quoted';\nimport Anonymous from './tree/anonymous';\nimport URL\n from './tree/url';\nimport Operation from './tree/operation';\n\nconst isa = (n, Type) => (n instanceof Type) ?\n Keyword.True : Keyword.False;\nconst isunit = (n, unit) => {\n  if (unit === undefined) {\n    throw { type:\n    'Argument', message: 'missing the required second\n    argument to isunit.' };\n  }\n  unit = typeof unit.value === 'string' ? unit.value : unit;\n  if (typeof unit !==\n  'string') {\n    throw { type: 'Argument', message: 'Second argument to isunit should be a unit or a string.' };\n  }\n  return (n instanceof Dimension) && n.unit.is(unit) ? Keyword.True : Keyword.False;\n};\n\n\nexport default {\n  isruleset: function (n) {\n    return isa(n, DetachedRuleset);\n  },\n  iscolor: function (n) {\n    return isa(n,\n    Color);\n  },\n  isnumber: function (n) {\n    return isa(n, Dimension);\n  },\n  isstring: function (n) {\n    return isa(n, Quoted);\n  },\n  iskeyword: function (n) {\n    return isa(n, Keyword);\n  },\n  isurl: function (n)\n  {\n    return isa(n, URL);\n  },\n  ispixel: function (n) {\n    return isunit(n, 'px');\n  },\n  ispercentage:\n  function (n) {\n    return isunit(n, '%');\n  },\n  isem: function (n) {\n    return isunit(n, 'em');\n  },\n  isunit,\n  unit: function (val, unit) {\n    if (!(val instanceof Dimension)) {\n      throw { type: 'Argument',\n      message: `the first argument to unit must be a number${val instanceof Operation ? '. Have you forgotten\n      parenthesis?' : ''}` };\n    }\n    if (unit) {\n      if (unit instanceof Keyword) {\n        unit = unit.value;\n      }\n      else {\n        unit = unit.toCSS();\n      }\n    } else {\n      unit = "";\n    }\n    return new\n    Dimension(val.value, unit);\n  },\n  'get-unit': function (n) {\n    return new Anonymous(n.unit);\n  };\n};\n\n", "import functionRegistry from './function-registry';\nimport functionCaller from './function-\n  caller';\nimport boolean from './boolean';\nimport defaultFunc from './default';\nimport color from\n './color';\nimport colorBlending from './color-blending';\nimport dataUri from './data-uri';\nimport list from\n './list';\nimport math from './math';\nimport\n number from './number';\nimport string from './string';\nimport svg from './svg';\nimport types from\n './types';\n\nexport default environment => {\n  const functions = { functionRegistry, functionCaller };\n  //\n  register functions\n  functionRegistry.addMultiple(boolean);\n  functionRegistry.add('default',

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defaultFunc.eval.bind(defaultFunc));\n functionRegistry.addMultiple(color);\n
functionRegistry.addMultiple(colorBlending);\n functionRegistry.addMultiple(dataUri(environment));\n
functionRegistry.addMultiple(list);\n functionRegistry.addMultiple(math);\n
functionRegistry.addMultiple(number);\n functionRegistry.addMultiple(string);\n
functionRegistry.addMultiple(svg(environment));\n functionRegistry.addMultiple(types);\n\n return
functions;\n};\n", "import Quoted from './tree/quoted';\nimport URL from './tree/url';\nimport * as utils from
 './utils';\nimport logger from './logger';\n\nexport default environment => {\n\n const fallback
= (functionThis, node) => new URL(node, functionThis.index,
functionThis.currentFileInfo).eval(functionThis.context); \n\n return { 'data-uri': function(mimetypeNode,
filePathNode) {\n\n if (!filePathNode) {\n\n filePathNode = mimetypeNode;\n\n mimetypeNode =
null;\n\n }\n\n let mimetype = mimetypeNode && mimetypeNode.value;\n\n let filePath =
filePathNode.value;\n\n const currentFileInfo = this.currentFileInfo;\n\n const currentDirectory =
currentFileInfo.rewriteUrls ?\n\n currentFileInfo.currentDirectory : currentFileInfo.entryPath;\n\n const
fragmentStart = filePath.indexOf('#);\n\n let fragment = '';\n\n if (fragmentStart !== -1) {\n\n fragment =
filePath.slice(fragmentStart);\n\n filePath = filePath.slice(0, fragmentStart);\n\n }\n\n const context =
utils.clone(this.context);\n\n context.rawBuffer = true;\n\n const fileManager =
environment.getFileManager(filePath,
currentDirectory, context, environment, true);\n\n if (!fileManager) {\n\n return fallback(this,
filePathNode);\n\n }\n\n let useBase64 = false;\n\n // detect the mimetype if not given\n\n if
(!mimetypeNode) {\n\n mimetype = environment.mimeLookup(filePath);\n\n if (mimetype ===
'image/svg+xml') {\n\n useBase64 = false;\n\n } else {\n\n // use base 64 unless it's an ASCII or
UTF-8 format\n\n const charset = environment.charsetLookup(mimetype);\n\n useBase64 = ['US-
ASCII', 'UTF-8'].indexOf(charset) < 0;\n\n }\n\n if (useBase64) { mimetype += ';base64'; }\n\n }\n
else {\n\n useBase64 = /;base64$/ .test(mimetype);\n\n }\n\n const fileSync =
fileManager.loadFileSync(filePath, currentDirectory, context, environment);\n\n if (!fileSync.contents) {\n
logger.warn(`Skipped data-uri embedding of
${filePath} because file not found`);\n\n return fallback(this, filePathNode || mimetypeNode);\n\n }\n\n let
buf = fileSync.contents;\n\n if (useBase64 && !environment.encodeBase64) {\n\n return fallback(this,
filePathNode);\n\n }\n\n buf = useBase64 ? environment.encodeBase64(buf) :
encodeURIComponent(buf);\n\n const uri = `data:${mimetype},${buf}${fragment}`;\n\n return new
URL(new Quoted(`"${uri}"`, uri, false, this.index, this.currentFileInfo), this.index, this.currentFileInfo);\n
}};\n};\n", "import Dimension from './tree/dimension';\nimport Color from './tree/color';\nimport Expression from
 './tree/expression';\nimport Quoted from './tree/quoted';\nimport URL from './tree/url';\n\nexport default
environment => {\n\n return { 'svg-gradient': function(direction) {\n\n let stops;\n\n let gradientDirectionSvg;\n\n
let gradientType = 'linear';\n\n let rectangleDimension = 'x="0" y="0" width="1"
height="1";\n\n const renderEnv = {compress: false};\n\n let returner;\n\n const directionValue =
direction.toCSS(renderEnv);\n\n let i;\n\n let color;\n\n let position;\n\n let positionValue;\n\n let
alpha;\n\n function throwArgumentDescriptor() {\n\n throw { type: 'Argument',\n\n message: 'svg-
gradient expects direction, start_color [start_position], [color position],..., ' +\n\n 'end_color
[end_position] or direction, color list' };\n\n }\n\n if (arguments.length === 2) {\n\n if
(arguments[1].value.length < 2) {\n\n throwArgumentDescriptor();\n\n }\n\n stops =
arguments[1].value;\n\n } else if (arguments.length < 3) {\n\n throwArgumentDescriptor();\n\n } else {\n
stops = Array.prototype.slice.call(arguments, 1);\n\n }\n\n switch (directionValue) {\n\n case 'to
bottom':\n\n gradientDirectionSvg = 'x1="0%" y1="0%" x2="0%" y2="100%";\n\n break;\n\n case 'to
right':\n\n gradientDirectionSvg = 'x1="0%" y1="0%" x2="100%" y2="0%";\n\n break;\n\n case 'to bottom right':\n\n
gradientDirectionSvg = 'x1="0%" y1="0%" x2="100%" y2="100%";\n\n break;\n\n case 'to top right':\n\n
gradientDirectionSvg = 'x1="0%" y1="100%" x2="100%"

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y2="0%";\n          break;\n          case 'ellipse':\n          case 'ellipse at center':\n          gradientType =
'radial';\n          gradientDirectionSvg = 'cx="50%" cy="50%" r="75%";\n          rectangleDimension =
{x="-50" y="-50" width="101" height="101";\n          break;\n          default:\n          throw { type:
'Argument', message: 'svg-gradient direction must be \\to bottom\\', \\to right\\', +\n          '\\to bottom
right\\', \\to top right\\' or \\ellipse at center\\' };
\n          }
\n          returner = `<svg
xmlns="http://www.w3.org/2000/svg" viewBox="0 0 1 1"><${gradientType}Gradient id="g"
${gradientDirectionSvg}>`;
\n          for (i = 0; i < stops.length; i += 1) {\n          if (stops[i] instanceof Expression)
{\n          color = stops[i].value[0];\n          position = stops[i].value[1];\n          } else {\n          color =
stops[i];\n          position = undefined;\n          }\n          if (!(color instanceof Color) || (!(i === 0 || i + 1 ===
stops.length) && position === undefined) && !(position instanceof Dimension))) {\n
throwArgumentDescriptor();\n          }\n          positionValue = position ? position.toCSS(renderEnv) : i === 0 ?
'0%' : '100%';\n          alpha = color.alpha;\n          returner += `<stop offset="${positionValue}" stop-
color="${color.toRGB()}"${alpha < 1 ? ` stop-opacity="${alpha}"` :
"}>`;
\n          }
\n          returner += `</${gradientType}Gradient><rect ${rectangleDimension} fill="url(#g)"
/></svg>`;
\n          returner = encodeURIComponent(returner);
\n          returner =
`data:image/svg+xml,${returner}`;
\n          return new URL(new Quoted(`${returner}`, returner, false, this.index,
this.currentFileInfo), this.index, this.currentFileInfo);
\n          }};\n};\n", "import contexts from './contexts';\nimport
visitor from './visitors';\nimport tree from './tree';\n\nexport default function(root, options) {\n  options = options ||
{};\n  let evaldRoot;\n  let variables = options.variables;\n  const evalEnv = new contexts.Eval(options);\n  /\n  // Allows setting variables with a hash, so:\n  /\n  // `{ color: new tree.Color('#f01)'}` will become:\n  /\n  // new tree.Declaration('@color',\n  // new tree.Value([\n  // new tree.Expression([\n  // new
tree.Color('#f01')\n  // ])\n  // ])\n  // ])\n  /\n
if (typeof variables === 'object' && !Array.isArray(variables)) {\n  variables =
Object.keys(variables).map(function (k) {\n    let value = variables[k];\n    if (!(value instanceof
tree.Value)) {\n      if (!(value instanceof tree.Expression)) {\n        value = new
tree.Expression([value]);\n      }\n      value = new tree.Value([value]);\n    }\n    return new
tree.Declaration(`@${k}`, value, false, null, 0);\n  });\n  evalEnv.frames = [new tree.RuleSet(null,
variables)];\n  }\n  const visitors = [\n    new visitor.JoinSelectorVisitor(),\n    new
visitor.MarkVisibleSelectorsVisitor(true),\n    new visitor.ExtendVisitor(),\n    new
visitor.ToCSSVisitor({compress: Boolean(options.compress)})\n  ];\n  const preEvalVisitors = [];\n  let v;\n  let visitorIterator;\n  /**\n   * first() / get() allows visitors to be added while visiting\n   * \n   * @todo
Add scoping for visitors just like functions for @plugin; right now they're global\n   */\n  if
(options.pluginManager) {\n    visitorIterator = options.pluginManager.visitor();\n    for (var i = 0; i < 2; i++)
{\n      visitorIterator.first();\n      while ((v = visitorIterator.get())) {\n        if (v.isPreEvalVisitor) {\n
if (i === 0 || preEvalVisitors.indexOf(v) === -1) {\n          preEvalVisitors.push(v);\n        }\n        v.run(root);\n      }\n    }\n    else {\n      if (i === 0 || visitors.indexOf(v) === -1) {\n
if (v.isPreVisitor) {\n          visitors.unshift(v);\n        }\n        else {\n
visitors.push(v);\n        }\n      }\n    }\n  }\n  }\n  evaldRoot = root.eval(evalEnv);\n  for (var i = 0; i < visitors.length; i++) {\n    visitors[i].run(evaldRoot);
\n  }\n  // Run any remaining visitors
added after eval pass\n  if (options.pluginManager) {\n    visitorIterator.first();\n    while ((v =
visitorIterator.get())) {\n      if (visitors.indexOf(v) === -1 && preEvalVisitors.indexOf(v) === -1) {\n
v.run(evaldRoot);\n      }\n    }\n  }\n  return evaldRoot;\n};\n", /**\n * Plugin Manager\n */\n\nclass
PluginManager {\n  constructor(less) {\n    this.less = less;\n    this.visitors = [];\n    this.preProcessors =
[];\n    this.postProcessors = [];\n    this.installedPlugins = [];\n    this.fileManagers = [];\n    this.iterator = -
1;\n    this.pluginCache = {};\n    this.Loader = new less.PluginLoader(less);\n  }\n  /**\n   * Adds all the
plugins in the array\n   * @param {Array} plugins\n   */\n  addPlugins(plugins) {\n    if (plugins) {\n

```

```

for (let i = 0; i < plugins.length; i++) {\n      this.addPlugin(plugins[i]);\n    }\n  }\n\n  /**\n   * @param plugin\n   * @param {String} filename\n   */\n  addPlugin(plugin, filename, functionRegistry)\n  {\n    this.installedPlugins.push(plugin);\n    if (filename) {\n      this.pluginCache[filename] = plugin;\n    }\n    if (plugin.install) {\n      plugin.install(this.less, this, functionRegistry ||\n        this.less.functions.functionRegistry);\n    }\n  }\n\n  /**\n   * @param filename\n   */\n  get(filename)\n  {\n    return this.pluginCache[filename];\n  }\n\n  /**\n   * Adds a visitor. The visitor object has options on\n   * itself to determine\n   * when it should run.\n   * @param visitor\n   */\n  addVisitor(visitor) {\n    this.visitors.push(visitor);\n  }\n\n  /**\n   * Adds a pre processor object\n   * @param {object} preProcessor\n   * @param {number} priority\n   * - guidelines 1 = before import, 1000 = import, 2000 = after import\n   */\n  addPreProcessor(preProcessor,\n    priority) {\n    let indexToInsertAt;\n    for (indexToInsertAt = 0; indexToInsertAt < this.preProcessors.length;\n      indexToInsertAt++) {\n      if (this.preProcessors[indexToInsertAt].priority >= priority) {\n        break;\n      }\n    }\n    this.preProcessors.splice(indexToInsertAt, 0, {preProcessor, priority});\n  }\n\n  /**\n   * Adds a post processor object\n   * @param {object} postProcessor\n   * @param {number} priority - guidelines 1\n   * = before compression, 1000 = compression, 2000 = after compression\n   */\n  addPostProcessor(postProcessor,\n    priority) {\n    let indexToInsertAt;\n    for (indexToInsertAt = 0; indexToInsertAt < this.postProcessors.length;\n      indexToInsertAt++) {\n      if (this.postProcessors[indexToInsertAt].priority >= priority) {\n        break;\n      }\n    }\n    this.postProcessors.splice(indexToInsertAt, 0, {postProcessor, priority});\n  }\n\n  /**\n   * @param\n   * manager\n   */\n  addFileManager(manager) {\n    this.fileManagers.push(manager);\n  }\n\n  /**\n   * @returns {Array}\n   * @private\n   */\n  getPreProcessors() {\n    const preProcessors = [];\n    for (let i = 0; i < this.preProcessors.length; i++) {\n      preProcessors.push(this.preProcessors[i].preProcessor);\n    }\n    return preProcessors;\n  }\n\n  /**\n   * @returns {Array}\n   * @private\n   */\n  getPostProcessors() {\n    const postProcessors = [];\n    for (let i = 0; i < this.postProcessors.length; i++) {\n      postProcessors.push(this.postProcessors[i].postProcessor);\n    }\n    return postProcessors;\n  }\n\n  /**\n   * @returns {Array}\n   * @private\n   */\n  getVisitors() {\n    return this.visitors;\n  }\n\n  visitor()\n  {\n    const self = this;\n    return {\n      first: function() {\n        self.iterator = -1;\n        return\n        self.visitors[self.iterator];\n      },\n      get: function() {\n        self.iterator += 1;\n        return\n        self.visitors[self.iterator];\n      },\n    };\n  }\n\n  /**\n   * @returns {Array}\n   * @private\n   */\n  getFileManagers() {\n    return this.fileManagers;\n  }\n\n  let pm;\n  const PluginManagerFactory =\n  function(less, newFactory) {\n    if (newFactory || !pm) {\n      pm = new PluginManager(less);\n    }\n    return\n    pm;\n  }\n\n  export default PluginManagerFactory;\n\n  "use strict";\n\n  function parseNodeVersion(version) {\n    var match = version.match(/^(\\d{1,2})\\.?(\\d{1,2})\\.?(\\d{1,2})?(?-[0-9A-Za-z-]+)?(?:\\+([0-9A-Za-z-]+)?$/); //\n    eslint-disable-line max-len\n    if (!match) {\n      throw new Error('Unable to parse: ' + version);\n    }\n\n    var res = {\n      major:\n      parseInt(match[1], 10),\n      minor: parseInt(match[2], 10),\n      patch: parseInt(match[3], 10),\n      pre: match[4] || "",\n      build: match[5] || "",\n    };\n\n    return res;\n  }\n\n  module.exports = parseNodeVersion;\n\n  /* global window,\n  XMLHttpRequest\n  */\n  import AbstractFileManager from './less/environment/abstract-file-manager.js';\n\n  let\n  options;\n  let\n  logger;\n  let\n  fileCache = {};\n\n  // TODOS - move log somewhere. pathDiff and doing something\n  similar in node. use pathDiff in the other browser file for the initial load\n  const\n  FileManager = function()\n  {\n    FileManager.prototype = Object.assign(new AbstractFileManager(), {\n      alwaysMakePathsAbsolute() {\n        return true;\n      },\n      join(basePath, laterPath) {\n        if (!basePath) {\n          return laterPath;\n        }\n        return this.extractUrlParts(laterPath, basePath).path;\n      },\n      doXHR(url, type, callback, errback) {\n        const\n        xhr = new XMLHttpRequest();\n        const\n        async = options.isFileProtocol\n        ? options.fileAsync : true;\n\n        if (typeof xhr.overrideMimeType === 'function') {\n          xhr.overrideMimeType('text/css');\n        }\n\n        logger.debug('XHR: Getting '$url$');\n        xhr.open('GET', url,\n          async);\n        xhr.setRequestHeader('Accept', type || 'text/x-less, text/css; q=0.9, */*; q=0.5');\n      }\n    });\n  }\n
```

```

xhr.send(null);\n\n    function handleResponse(xhr, callback, errback) {\n        if (xhr.status >= 200 &&\n        xhr.status < 300) {\n            callback(xhr.responseText,\n                xhr.getResponseHeader('Last-Modified'));\n        } else if (typeof errback === 'function') {\n            errback(xhr.status, url);\n        }\n    }\n\n    if\n    (options.isFileProtocol && !options.fileAsync) {\n        if (xhr.status === 0 || (xhr.status >= 200 && xhr.status <\n        300)) {\n            callback(xhr.responseText);\n        } else {\n            errback(xhr.status, url);\n        }\n    }\n\n    } else if (async) {\n        xhr.onreadystatechange = () => {\n            if (xhr.readyState === 4) {\n                handleResponse(xhr,\n                callback, errback);\n            }\n        }; \n    } else {\n        handleResponse(xhr, callback, errback);\n    }\n}\n\nsupports() {\n    return true;\n}\n\nclearFileCache() {\n    fileCache = {};\n}\n\nloadFile(filename, currentDirectory, options, environment) {\n    // TODO: Add prefix support like less-node?\n    // What about multiple paths?\n    if (currentDirectory && !this.isPathAbsolute(filename)) {\n        filename\n        = currentDirectory + filename;\n    }\n    filename = options.ext ? this.tryAppendExtension(filename,\n    options.ext) : filename;\n    options = options || {};\n    // sheet may be set to the stylesheet for the initial\n    load or a collection of properties including\n    // some context variables for imports\n    const hrefParts =\n    this.extractUrlParts(filename,\n    window.location.href);\n    const href = hrefParts.url;\n    const self = this;\n\n    return new\n    Promise((resolve, reject) => {\n        if (options.useFileCache && fileCache[href]) {\n            try {\n                const lessText = fileCache[href];\n                return resolve({ contents: lessText, filename: href, webInfo: {\n                lastModified: new Date() });\n            } catch (e) {\n                return reject({ filename: href, message: `Error\n                loading file ${href} error was ${e.message}` });\n            }\n        }\n        self.doXHR(href, options.mime,\n        function doXHRcallback(data, lastModified) {\n            // per file cache\n            fileCache[href] = data;\n\n            // Use remote copy (re-parse)\n            resolve({ contents: data, filename: href, webInfo: {\n            lastModified\n            }});\n        }, function doXHRError(status, url) {\n            reject({\n            type: 'File', message: `${url} wasn't found (${status})`, href });\n        });\n    });\n}\n\nexport default\n    (opts, log) => {\n        options = opts;\n        logger = log;\n        return FileManager;\n    }, "import Environment from\n    './environment/environment';\n    import data from './data';\n    import tree from './tree';\n    import AbstractFileManager\n    from './environment/abstract-file-manager';\n    import AbstractPluginLoader from './environment/abstract-plugin-\n    loader';\n    import visitors from './visitors';\n    import Parser from './parser/parser';\n    import functions from\n    './functions';\n    import contexts from './contexts';\n    import LessError from './less-error';\n    import transformTree from\n    './transform-tree';\n    import * as utils from './utils';\n    import PluginManager from './plugin-manager';\n    import logger\n    from './logger';\n    import SourceMapOutput from './source-map-output';\n    import SourceMapBuilder from './source-\n    map-builder';\n    import ParseTree from './parse-tree';\n    import ImportManager from './import-manager';\n    import\n    Parse from './parse';\n    import Render from './render';\n    import { version } from '../package.json';\n    import\n    parseVersion from 'parse-node-version';\n    export default function(environment, fileManagers) {\n        let\n        sourceMapOutput, sourceMapBuilder, parseTree, importManager;\n        environment = new\n        Environment(environment, fileManagers);\n        sourceMapOutput = SourceMapOutput(environment);\n        sourceMapBuilder = SourceMapBuilder(sourceMapOutput, environment);\n        parseTree =\n        ParseTree(sourceMapBuilder);\n        importManager = ImportManager(environment);\n        const render =\n        Render(environment, parseTree, importManager);\n        const parse = Parse(environment, parseTree,\n        importManager);\n        const v = parseVersion(`v${version}`);\n        const initial = {\n            version: [v.major, v.minor,\n            v.patch],\n            data,\n            tree,\n            Environment,\n            AbstractFileManager,\n            AbstractPluginLoader,\n            environment,\n            visitors,\n            Parser,\n            functions: functions(environment),\n            contexts,\n            SourceMapOutput: sourceMapOutput,\n            SourceMapBuilder: sourceMapBuilder,\n            ParseTree: parseTree,\n            ImportManager: importManager,\n            render,\n            parse,\n            LessError,\n            transformTree,\n            utils,\n            PluginManager,\n            logger\n        };\n        // Create a public API\n        const ctor = function(t) {\n            return function() {\n                const obj =\n                Object.create(t.prototype);\n                t.apply(obj, Array.prototype.slice.call(arguments, 0));\n                return obj;\n            }\n        };\n        let t;\n        const api = Object.create(initial);\n        for (const n in initial.tree) {\n            /* eslint guard-for-in:

```



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0 */\n    t = initial.tree[n];\n    if (typeof t === 'function') {\n        api[n.toLowerCase()] = ctor(t);\n    }\n    else {\n        api[n] = Object.create(null);\n        for (const o in t) {\n            /* eslint
guard-for-in: 0 */\n            api[n][o.toLowerCase()] = ctor(t[o]);\n        }\n    }\n}\n\n/**\n * Some of
the functions assume a `this` context of the API object,\n * which causes it to fail when wrapped for ES6
imports.\n * \n * An assumed `this` should be removed in the future.\n */\n\ninitial.parse =
initial.parse.bind(api);\n\ninitial.render = initial.render.bind(api);\n\nreturn api;\n};\n", "import LessError from
'./less-error';\nimport transformTree from './transform-tree';\nimport logger from './logger';\n\nexport default
function(SourceMapBuilder) {\n    class ParseTree {\n        constructor(root, imports) {\n            this.root = root;\n            this.imports = imports;\n        }\n        toCSS(options) {\n            let evaldRoot;\n            const result = {};\n            let sourceMapBuilder;\n            try {\n                evaldRoot = transformTree(this.root, options);\n            } catch
(e) {\n                throw new LessError(e, this.imports);\n            }\n            try {\n                const compress =
Boolean(options.compress);\n                if (compress) {\n                    logger.warn("The compress option has been
deprecated. ' + \n                    'We recommend you use a dedicated css minifier, for instance see less-plugin-clean-
css.);\n                }\n                const toCSSTOptions = {\n                    compress,\n                    dumpLineNumbers:
options.dumpLineNumbers,\n                    strictUnits: Boolean(options.strictUnits),\n                    numPrecision:
8};\n                if (options.sourceMap) {\n                    sourceMapBuilder = new
SourceMapBuilder(options.sourceMap);\n                    result.css = sourceMapBuilder.toCSS(evaldRoot,
toCSSTOptions, this.imports);\n                } else {\n                    result.css = evaldRoot.toCSS(toCSSTOptions);\n                }\n            } catch (e) {\n                throw new LessError(e, this.imports);\n            }\n            if (options.pluginManager) {\n                const
postProcessors = options.pluginManager.getPostProcessors();\n                for (let i = 0; i < postProcessors.length;
i++) {\n                    result.css = postProcessors[i].process(result.css, { sourceMap: sourceMapBuilder, options,
imports: this.imports });\n                }\n                if (options.sourceMap) {\n                    result.map =
sourceMapBuilder.getExternalSourceMap();\n                }\n                result.imports = [];\n                for (const file in
this.imports.files) {\n                    if (this.imports.files.hasOwnProperty(file) && file !== this.imports.rootFilename)
{\n                        result.imports.push(file);\n                    }\n                }\n                return result;\n            }\n}\n\nreturn
ParseTree;\n};\n", "export default function (SourceMapOutput, environment) {\n    class SourceMapBuilder {\n        constructor(options)
{\n            this.options = options;\n        }\n        toCSS(rootNode, options, imports) {\n            const
sourceMapOutput = new SourceMapOutput(\n                {\n                    contentsIgnoredCharsMap:\n                    imports.contentsIgnoredChars,\n                    rootNode,\n                    contentsMap: imports.contents,\n                    sourceMapFilename: this.options.sourceMapFilename,\n                    sourceMapURL:\n                    this.options.sourceMapURL,\n                    outputFilename: this.options.sourceMapOutputFilename,\n                    sourceMapBasepath: this.options.sourceMapBasepath,\n                    sourceMapRootpath:\n                    this.options.sourceMapRootpath,\n                    outputSourceFiles: this.options.outputSourceFiles,\n                    sourceMapGenerator: this.options.sourceMapGenerator,\n                    sourceMapFileInline:\n                    this.options.sourceMapFileInline, \n                    disableSourceMapAnnotation:\n                    this.options.disableSourceMapAnnotation\n                });\n            const css = sourceMapOutput.toCSS(options);\n            this.sourceMap =
sourceMapOutput.sourceMap;\n            this.sourceMapURL = sourceMapOutput.sourceMapURL;\n            if
(this.options.sourceMapInputFilename) {\n                this.sourceMapInputFilename =
sourceMapOutput.normalizeFilename(this.options.sourceMapInputFilename);\n            }\n            if
(this.options.sourceMapBasepath !== undefined && this.sourceMapURL !== undefined) {\n                this.sourceMapURL = sourceMapOutput.removeBasepath(this.sourceMapURL);\n            }\n            return css +
this.getCSSAppendage();\n        }\n        getCSSAppendage() {\n            let sourceMapURL =
this.sourceMapURL;\n            if (this.options.sourceMapFileInline) {\n                if (this.sourceMap === undefined)
{\n                    return ";\n                }\n                sourceMapURL =

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`data:application/json;base64,{environment.encodeBase64(this.sourceMap)}`;
    }\n    if (this.options.disableSourceMapAnnotation) {\n        return ";\n    }\n    if
(sourceMapURL) {\n        return `/*# sourceMappingURL=${sourceMapURL} */`;
    }\n    return
";\n    }\n    getExternalSourceMap() {\n        return this.sourceMap;\n    }\n    setExternalSourceMap(sourceMap) {\n        this.sourceMap = sourceMap;\n    }\n    isInline() {\n
return this.options.sourceMapFileInline;\n    }\n    getSourceMapURL() {\n        return
this.sourceMapURL;\n    }\n    getOutputFilename() {\n        return
this.options.sourceMapOutputFilename;\n    }\n    getInputFilename() {\n        return
this.sourceMapInputFilename;\n    }\n    }\n    return SourceMapBuilder;\n};\n", "export default function
(environment) {\n    class SourceMapOutput {\n        constructor(options) {\n            this._css
= [];\n            this._rootNode = options.rootNode;\n            this._contentsMap = options.contentsMap;\n
this._contentsIgnoredCharsMap = options.contentsIgnoredCharsMap;\n            if (options.sourceMapFilename) {\n
                this._sourceMapFilename = options.sourceMapFilename.replace(/\\/g, '/');\n            }\n
this._outputFilename = options.outputFilename;\n            this.sourceMapURL = options.sourceMapURL;\n            if
(options.sourceMapBasepath) {\n                this._sourceMapBasepath = options.sourceMapBasepath.replace(/\\/g,
'/');\n            }\n            if (options.sourceMapRootpath) {\n                this._sourceMapRootpath =
options.sourceMapRootpath.replace(/\\/g, '/');\n            }\n            if
(this._sourceMapRootpath.charAt(this._sourceMapRootpath.length - 1) !== '/') {\n
this._sourceMapRootpath += '/';\n            }\n        } else {\n            this._sourceMapRootpath = ";\n
        }\n        this._outputSourceFiles = options.outputSourceFiles;\n        this._sourceMapGeneratorConstructor
= environment.getSourceMapGenerator();\n        this._lineNumber = 0;\n        this._column = 0;\n    }\n    removeBasepath(path) {\n        if (this._sourceMapBasepath && path.indexOf(this._sourceMapBasepath) ===
0) {\n            path = path.substr(this._sourceMapBasepath.length);\n            if (path.charAt(0) === '\\\\' ||
path.charAt(0) === '/') {\n                path = path.substr(1);\n            }\n        }\n        return path;\n
    }\n    normalizeFilename(filename) {\n        filename = filename.replace(/\\/g, '/');\n        filename =
this.removeBasepath(filename);\n        return (this._sourceMapRootpath || "") + filename;\n    }\n    add(chunk, fileInfo, index, mapLines) {\n        // ignore adding empty strings\n        if (!chunk) {\n
return;\n        }\n        let lines, sourceLines, columns, sourceColumns, i;\n        if (fileInfo &&
fileInfo.filename) {\n            let inputSource = this._contentsMap[fileInfo.filename];\n            // remove
vars/banner added to the top of the file\n            if (this._contentsIgnoredCharsMap[fileInfo.filename]) {\n
                // adjust the index\n                index -= this._contentsIgnoredCharsMap[fileInfo.filename];\n            }\n            if
(index < 0) {\n                index = 0;\n            }\n            // adjust the source\n            inputSource =
inputSource.slice(this._contentsIgnoredCharsMap[fileInfo.filename]);\n        }\n        /**\n         *\n
ignore empty content, or failsafe\n         * if contents map is incorrect\n         */\n        if (inputSource
=== undefined) {\n            this._css.push(chunk);\n            return;\n        }\n        inputSource = inputSource.substr(0, index);\n        sourceLines = inputSource.split("\\n");\n
sourceColumns = sourceLines[sourceLines.length - 1];\n        lines = chunk.split("\\n");\n        columns = lines[lines.length - 1];\n        if (fileInfo && fileInfo.filename) {\n            if (!mapLines) {\n
                this._sourceMapGenerator.addMapping({ generated: { line: this._lineNumber + 1, column: this._column },\n
                    original: { line: sourceLines.length, column: sourceColumns.length },\n                    source:
this.normalizeFilename(fileInfo.filename)});\n            } else {\n                for (i = 0; i < lines.length; i++) {\n
                    this._sourceMapGenerator.addMapping({ generated: { line: this._lineNumber + i + 1, column: i === 0 ?
this._column : 0 },\n                        original: { line: sourceLines.length + i, column: i === 0 ?
sourceColumns.length
: 0 },\n                        source: this.normalizeFilename(fileInfo.filename)});\n                }\n            }\n
        }\n        if (lines.length === 1) {\n            this._column += columns.length;\n        } else {\n
this._lineNumber += lines.length - 1;\n            this._column = columns.length;\n        }\n        this._css.push(chunk);\n    }\n    isEmpty() {\n        return this._css.length === 0;\n    }\n}

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toCSS(context) {\n      this._sourceMapGenerator = new this._sourceMapGeneratorConstructor({ file:
this._outputFilename, sourceRoot: null });\n\n      if (this._outputSourceFiles) {\n        for (const filename in
this._contentsMap) {\n          if (this._contentsMap.hasOwnProperty(filename)) {\n            let source =
this._contentsMap[filename];\n            if (this._contentsIgnoredCharsMap[filename]) {\n              source = source.slice(this._contentsIgnoredCharsMap[filename]);\n            }\n            this._sourceMapGenerator.setSourceContent(this.normalizeFilename(filename), source);\n          }\n        }\n      }\n\n      this._rootNode.genCSS(context, this);\n\n      if (this._css.length > 0) {\n        let sourceMapURL;\n        const sourceMapContent = JSON.stringify(this._sourceMapGenerator.toJSON());\n\n        if (this.sourceMapURL) {\n          sourceMapURL = this.sourceMapURL;\n        } else if (this._sourceMapFilename) {\n          sourceMapURL = this._sourceMapFilename;\n        }\n        this.sourceMapURL = sourceMapURL;\n        this.sourceMap = sourceMapContent;\n      }\n\n      return this._css.join(" ");\n    }\n  }\n\n  return SourceMapOutput;\n};\n", "import contexts from
'./contexts';\n\nimport Parser from
'./parser/parser';\n\nimport LessError from './less-error';\n\nimport * as utils from './utils';\n\nimport logger from
'./logger';\n\n\nexport default function(environment) {\n  // FileInfo = {\n  // 'rewriteUrls' - option - whether to
adjust URL's to be relative\n  // 'filename' - full resolved filename of current file\n  // 'rootpath' - path to append
to normal URLs for this node\n  // 'currentDirectory' - path to the current file, absolute\n  // 'rootFilename' -
filename of the base file\n  // 'entryPath' - absolute path to the entry file\n  // 'reference' - whether the file should
not be output and only output parts that are referenced\n\n  class ImportManager {\n    constructor(less, context,
rootFileInfo) {\n      this.less = less;\n      this.rootFilename = rootFileInfo.filename;\n      this.paths =
context.paths || [];\n      // Search paths, when importing\n      this.contents = {};\n      // map - filename to contents
of all the files\n\n      this.contentsIgnoredChars = {};\n      // map - filename to lines at the beginning of each file to ignore\n\n      this.mime = context.mime;\n      this.error = null;\n      this.context = context;\n      // Deprecated? Unused
outside of here, could be useful.\n      this.queue = [];\n      // Files which haven't been imported yet\n\n      this.files = {};\n      // Holds the imported parse trees.\n    }\n\n    /**\n     * Add an import to be imported\n
     * @param path - the raw path\n     * @param tryAppendExtension - whether to try appending a file extension
(less or .js if the path has no extension)\n     * @param currentFileInfo - the current file info (used for instance to
work out relative paths)\n     * @param importOptions - import options\n     * @param callback - callback for
when it is imported\n     */\n    push(path, tryAppendExtension, currentFileInfo, importOptions, callback) {\n\n      const importManager = this, pluginLoader = this.context.pluginManager.Loader;\n\n      this.queue.push(path);\n\n      const fileParsedFunc = function (e, root, fullPath) {\n        importManager.queue.splice(importManager.queue.indexOf(path), 1); // Remove the path from the queue\n\n        const importedEqualsRoot = fullPath === importManager.rootFilename;\n\n        if (importOptions.optional && e) {\n          callback(null, {rules: []}, false, null);\n          logger.info(`The file ${fullPath} was
skipped because it was not found and the import was marked optional.`);\n        } else {\n          // Inline imports aren't cached here.\n          // If we start to cache them, please make sure they won't conflict
with non-inline imports of the\n          // same name as they used to do before this comment and the condition
below have been added.\n          if (!importManager.files[fullPath] && !importOptions.inline) {\n            importManager.files[fullPath] = { root, options: importOptions };\n          }\n          if (e && !importManager.error) {\n            importManager.error = e;\n          }\n          callback(e, root,
importedEqualsRoot, fullPath);\n        }\n      };\n\n      const newFileInfo = {\n        rewriteUrls:
this.context.rewriteUrls,\n        entryPath: currentFileInfo.entryPath,\n        rootpath:
currentFileInfo.rootpath,\n        rootFilename: currentFileInfo.rootFilename\n      };\n\n      const
fileManager = environment.getFileManager(path, currentFileInfo.currentDirectory, this.context, environment);\n\n      if (!fileManager) {\n        fileParsedFunc({ message: `Could not find a file-manager for ${path}` });\n      }\n      return;\n    }\n\n    const loadFileCallback = function(loadedFile) {\n

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    let plugin;\n        const resolvedFilename = loadedFile.filename;\n        const contents =
loadedFile.contents.replace(/^\\uFEFF/, "");\n        // Pass on an updated rootpath if path of imported file is
relative and file\n        // is in a (sub|sup) directory\n        //\n        // Examples:\n        // - If path
of imported file is 'module/nav/nav.less' and rootpath is 'less/',\n        // then rootpath should become
'less/module/nav/\n        // - If path of imported file is './mixins.less' and rootpath is 'less/',\n        // then
rootpath should become 'less./'\n        newFileInfo.currentDirectory =
fileManager.getPath(resolvedFilename);\n        if (newFileInfo.rewriteUrls) {\n
newFileInfo.rootpath = fileManager.join(\n        (importManager.context.rootpath || ""),\n
fileManager.pathDiff(newFileInfo.currentDirectory,
newFileInfo.entryPath));\n        if (!fileManager.isPathAbsolute(newFileInfo.rootpath) &&
fileManager.alwaysMakePathsAbsolute()) {\n        newFileInfo.rootpath =
fileManager.join(newFileInfo.entryPath, newFileInfo.rootpath);\n        }\n        }\n
newFileInfo.filename = resolvedFilename;\n        const newEnv = new
contexts.Parse(importManager.context);\n        newEnv.processImports = false;\n
importManager.contents[resolvedFilename] = contents;\n        if (currentFileInfo.reference ||
importOptions.reference) {\n        newFileInfo.reference = true;\n        }\n        if
(importOptions.isPlugin) {\n        plugin = pluginLoader.evalPlugin(contents, newEnv, importManager,
importOptions.pluginArgs, newFileInfo);\n        if (plugin instanceof LessError) {\n
fileParsedFunc(plugin, null,
resolvedFilename);\n        }\n        else {\n        fileParsedFunc(null, plugin,
resolvedFilename);\n        }\n        } else if (importOptions.inline) {\n        fileParsedFunc(null,
contents, resolvedFilename);\n        } else {\n        // import (multiple) parse trees apparently get altered
and can't be cached.\n        // TODO: investigate why this is\n        if
(importManager.files[resolvedFilename]\n        &&
!importManager.files[resolvedFilename].options.multiple\n        && !importOptions.multiple) {\n
fileParsedFunc(null, importManager.files[resolvedFilename].root, resolvedFilename);\n        }\n
else {\n        new Parser(newEnv, importManager, newFileInfo).parse(contents, function (e, root) {\n
fileParsedFunc(e, root, resolvedFilename);\n
});\n        }\n        }\n        }\n        }\n        let loadedFile;\n        let promise;\n
const context = utils.clone(this.context);\n        if (tryAppendExtension) {\n        context.ext =
importOptions.isPlugin ? '.js' : '.less';\n        }\n        if (importOptions.isPlugin) {\n        context.mime =
'application/javascript';\n        }\n        if (context.syncImport) {\n        loadedFile =
pluginLoader.loadPluginSync(path, currentFileInfo.currentDirectory, context, environment, fileManager);\n
} else {\n        promise = pluginLoader.loadPlugin(path, currentFileInfo.currentDirectory, context,
environment, fileManager);\n        }\n        }\n        else {\n        if (context.syncImport) {\n
loadedFile = fileManager.loadFileSync(path, currentFileInfo.currentDirectory, context, environment);\n
} else {\n        promise = fileManager.loadFile(path, currentFileInfo.currentDirectory, context,
environment,\n        (err, loadedFile) => {\n        if (err) {\n
fileParsedFunc(err);\n        } else {\n        loadFileCallback(loadedFile);\n
}\n        });\n        }\n        }\n        if (loadedFile) {\n        if (!loadedFile.filename) {\n
fileParsedFunc(loadedFile);\n        } else {\n        loadFileCallback(loadedFile);\n        }\n
} else if (promise) {\n        promise.then(loadFileCallback, fileParsedFunc);\n        }\n        }\n        }\n
return ImportManager;\n};\n", "import * as utils from './utils';\n\nexport default function(environment, ParseTree,
ImportManager) {\n    const render = function
(input, options, callback) {\n        if (typeof options === 'function') {\n            callback = options;\n            options =
utils.copyOptions(this.options, {});\n        }\n        else {\n            options = utils.copyOptions(this.options, options ||
{});\n        }\n        if (!callback) {\n            const self = this;\n            return new Promise(function (resolve, reject)
{\n                render.call(self, input, options, function(err, output) {\n                    if (err) {\n

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reject(err);\n          } else {\n              resolve(output);\n          }\n      });\n  });\n  }\n  else {\n      this.parse(input, options, function(err, root, imports, options) {\n          if (err) { return\n          callback(err); }\n          let result;\n          try {\n              const parseTree = new ParseTree(root,\n              imports);\n              result = parseTree.toCSS(options);\n          }\n          catch (err) { return callback(err); }\n          callback(null, result);\n      });\n  }\n  return render;\n};\n\n", "import contexts from './contexts';\nimport Parser from './parser/parser';\nimport\nPluginManager from './plugin-manager';\nimport LessError from './less-error';\nimport * as utils from\n './utils';\n\nexport default function(environment, ParseTree, ImportManager) {\n  const parse = function (input,\n  options, callback) {\n    if (typeof options === 'function') {\n      callback = options;\n      options =\n      utils.copyOptions(this.options, {});\n    }\n    else {\n      options = utils.copyOptions(this.options, options ||\n      {});\n    }\n    if (!callback) {\n      const self = this;\n      return new Promise(function (resolve, reject)\n      {\n        parse.call(self, input, options, function(err, output) {\n          if (err) {\n            reject(err);\n          } else {\n            resolve(output);\n          }\n        });\n      });\n    } else {\n      let context;\n      let rootFileInfo;\n      const pluginManager = new\n      PluginManager(this, !options.reUsePluginManager);\n      options.pluginManager = pluginManager;\n      context = new contexts.Parse(options);\n      if (options.rootFileInfo) {\n        rootFileInfo =\n        options.rootFileInfo;\n      } else {\n        const filename = options.filename || 'input';\n        const\n        entryPath = filename.replace(/^[^\\|\\\\]*$/, "");\n        rootFileInfo = {\n          filename,\n          rewriteUrls: context.rewriteUrls,\n          rootpath: context.rootpath || "",\n          currentDirectory:\n          entryPath,\n          entryPath,\n          rootFilename: filename\n        };\n        // add in a missing trailing slash\n        if (rootFileInfo.rootpath &&\n        rootFileInfo.rootpath.slice(-1) !== '/') {\n          rootFileInfo.rootpath += '/';\n        }\n      }\n      const imports = new ImportManager(this, context, rootFileInfo);\n      this.importManager = imports;\n      // TODO: allow the plugins to be just a list of paths or names\n      // Do an async plugin queue like lessc\n      if (options.plugins) {\n        options.plugins.forEach(function(plugin) {\n          let evalResult,\n          contents;\n          if (plugin.fileContent) {\n            contents = plugin.fileContent.replace(/^\\uFEFF/, "\n");\n            evalResult = pluginManager.Loader.evalPlugin(contents, context, imports, plugin.options,\n            plugin.filename);\n          } else {\n            if (evalResult instanceof LessError) {\n              return\n              callback(evalResult);\n            }\n          }\n          else {\n            pluginManager.addPlugin(plugin);\n          }\n        });\n      }\n      new Parser(context, imports, rootFileInfo)\n      .parse(input, function (e,\n      root) {\n        if (e) { return callback(e); }\n        callback(null, root, imports, options);\n      },\n      options);\n    }\n  }; return parse;\n};\n\n", "/*\n * TODO: Add tests for browser @plugin\n */\n\nimport * as utils from\n './utils';\nimport AbstractPluginLoader from '../less/environment/abstract-plugin-loader.js';\n\n * Browser Plugin\nLoader\n *\nconst PluginLoader = function(less) {\n  this.less = less;\n  // Should we shim this.require for\n  browser? Probably not?\n\nPluginLoader.prototype = Object.assign(new AbstractPluginLoader(), {\n  loadPlugin(filename, basePath, context, environment, fileManager) {\n    return new Promise((fulfill,\n    reject) => {\n      fileManager.loadFile(filename, basePath, context, environment)\n      .then(fulfill).catch(reject);\n    });\n  });\n\nexport default PluginLoader;\n\n", "import * as utils from\n './utils';\nimport browser from './browser';\n\nexport default (window, less, options) => {\n  function\n  errorHTML(e, rootHref) {\n    const id = `less-error-message:${utils.extractId(rootHref || "")}`;\n    const\n    template = '<li><label>{line}</label><pre class="{class}">{content}</pre></li>';\n    const elem =\n    window.document.createElement('div');\n    let timer;\n    let content;\n    const errors = [];\n    const\n    filename = e.filename || rootHref;\n    const filenameNoPath = filename.match(/([^\|]+(?:\?.*)?)$/)[1];\n    elem.id\n    = id;\n    elem.className = 'less-error-message';\n    content = `<h3>${e.type || 'Syntax'}Error:\n    ${e.message || 'There is an error in your .less file'}` +\n    `</h3><p>in\n    <a href="{filename}">${filenameNoPath}</a>`;\n    const errorline = (e, i, classname) => {\n      if\n      (e.extract[i] !== undefined) {\n        errors.push(template.replace(/{line}/, (parseInt(e.line, 10) || 0) + (i -

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1))\n      .replace(/\{class\}/, classname)\n      .replace(/\{content\}/, e.extract[i]);\n    }\n    if (e.line) {\n      errorline(e, 0, "");\n      errorline(e, 1, 'line');\n      errorline(e, 2, "");\n    }\n    content += `on line ${e.line}, column ${e.column + 1}</p><ul>${errors.join("")}</ul>`; \n    if (e.stack && (e.extract || options.logLevel >= 4)) {\n      content += `<br>Stack Trace<br>`;\n    }\n    elem.innerHTML = content;\n    // CSS for error messages\n    browser.createCSS(window.document, [\n      '.less-error-message ul, .less-error-message li {\n        list-style-type: none;\n        margin-right: 15px;\n        padding: 4px 0;\n        margin: 0;\n      }',\n      '.less-error-message label {\n        font-size: 12px;\n        margin-right: 15px;\n        padding: 4px 0;\n        color: #cc7777;\n      }',\n      '.less-error-message pre {\n        color: #dd6666;\n        padding: 4px 0;\n        margin: 0;\n        display: inline-block;\n      }',\n      '.less-error-message pre.line {\n        color: #ff0000;\n      }',\n      '.less-error-message h3 {\n        font-size: 20px;\n        font-weight: bold;\n        padding: 15px 0 5px 0;\n        margin: 0;\n      }',\n      '.less-error-message a {\n        color: #10a;\n      }',\n      '.less-error-message .error {\n        color: red;\n        font-weight: bold;\n        padding-bottom: 2px;\n        border-bottom: 1px dashed red;\n      }'\n    ].join('\n'), {\n      title: 'error-message' });\n    elem.style.cssText = [\n      'font-family: Arial, sans-serif,\n      border: 1px solid #e00,\n      background-color: #eee,\n      border-radius: 5px,\n      -webkit-border-radius: 5px,\n      -moz-border-radius: 5px,\n      color: #e00,\n      padding: 15px,\n      margin-bottom: 15px'\n    ].join(';');\n    if (options.env === 'development') {\n      timer = setInterval(() => {\n        const document = window.document;\n        const body = document.body;\n        if (body) {\n          if (document.getElementById(id)) {\n            body.replaceChild(elem, document.getElementById(id));\n          } else {\n            body.insertBefore(elem, body.firstChild);\n          }\n          clearInterval(timer);\n        }, 10);\n      }\n    }\n  }\n\n  function removeErrorHTML(path) {\n    const node = window.document.getElementById('less-error-message:${utils.extractId(path)}');\n    if (node) {\n      node.parentNode.removeChild(node);\n    }\n  }\n\n  function removeErrorConsole(path) {\n    // no action\n  }\n\n  function removeError(path) {\n    if (!options.errorReporting || options.errorReporting === 'html') {\n      removeErrorHTML(path);\n    } else if (options.errorReporting === 'console') {\n      removeErrorConsole(path);\n    } else if (typeof options.errorReporting === 'function') {\n      options.errorReporting('remove', path);\n    }\n  }\n\n  function errorConsole(e, rootHref) {\n    const template = '{line} {content}';\n    const filename = e.filename || rootHref;\n    const errors = [];\n    let content = `${e.type || 'Syntax'}Error: ${e.message || 'There is an error in your .less file'} in ${filename}`;\n    const errorline = (e, i, classname) => {\n      if (e.extract[i] !== undefined) {\n        errors.push(template.replace(/\{line\}/, (parseInt(e.line, 10) || 0) + (i - 1))\n          .replace(/\{class\}/, classname)\n          .replace(/\{content\}/, e.extract[i]));\n      }\n    }\n    if (e.line) {\n      errorline(e, 0, "");\n      errorline(e, 1, 'line');\n      errorline(e, 2, "");\n      content += `on line ${e.line}, column ${e.column + 1}:\\n${errors.join("\\n")}`;\n    }\n    if (e.stack && (e.extract || options.logLevel >= 4)) {\n      content += `\\nStack Trace\\n${e.stack}`;\n    }\n    less.logger.error(content);\n  }\n\n  function error(e, rootHref) {\n    if (!options.errorReporting || options.errorReporting === 'html') {\n      errorHTML(e, rootHref);\n    } else if (options.errorReporting === 'console') {\n      errorConsole(e, rootHref);\n    } else if (typeof options.errorReporting === 'function') {\n      options.errorReporting('add', e, rootHref);\n    }\n  }\n\n  return {\n    add: error,\n    remove: removeError\n  }; \n  /**\n   * Kicks off less and compiles any stylesheets\n   * used in the browser distributed version of less\n   * to kick-start less using the browser api\n   * global window, document\n   * import defaultOptions from './less/default-options';\n   * import addDefaultOptions from './add-default-options';\n   * import root from './index';\n   * const options = defaultOptions();\n   * if (window.less) {\n     for (const key in window.less) {\n       if (window.less.hasOwnProperty(key)) {\n         options[key] = window.less[key];\n       }\n     }\n     naddDefaultOptions(window, options);\n     noptions.plugins = options.plugins ||

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[];\n\nif (window.LESS_PLUGINS) {\n  options.plugins
= options.plugins.concat(window.LESS_PLUGINS);\n}\n\nconst less = root(window, options);\n\nexport default
less;\n\nwindow.less = less;\n\nlet css;\nlet head;\nlet style;\n\n// Always restore page visibility\n\nfunction
resolveOrReject(data) {\n  if (data.filename) {\n    console.warn(data);\n  }\n  if (!options.async) {\n
head.removeChild(style);\n  }\n}\n\nif (options.onReady) {\n  if (!watch/.test(window.location.hash)) {\n
less.watch();\n  }\n  // Simulate synchronous stylesheet loading by hiding page rendering\n  if (!options.async)
{\n    css = 'body { display: none !important }';\n    head = document.head ||
document.getElementsByTagName('head')[0];\n    style = document.createElement('style');\n\n    style.type =
'text/css';\n    if (style.styleSheet) {\n      style.styleSheet.cssText = css;\n    } else {\n
style.appendChild(document.createTextNode(css));\n    }\n\n    head.appendChild(style);\n  }\n  less.registerStylesheetsImmediately();\n  less.pageLoadFinished = less.refresh(less.env ===
'development').then(resolveOrReject, resolveOrReject);\n}\n\n", "// Export a new default each time\n\nexport default
function() {\n  return {\n    /* Inline Javascript - @plugin still allowed */\n    javascriptEnabled: false,\n\n    /* Outputs a makefile import dependency list to stdout. */\n    depends: false,\n\n    /* (DEPRECATED)
Compress using less built-in compression. */\n    * This does an okay job but does not utilise all the tricks of\n
* dedicated css compression. */\n    compress: false,\n\n    /* Runs the less parser and just reports errors without
any output. */\n    lint: false,\n\n    /* Sets available include paths. */\n    * If the file in an @import rule does
not exist at that exact location, */\n    * less will look for it at the location(s) passed to this option. */\n    * You
might use this for instance
to specify a path to a library which */\n    * you want to be referenced simply and relatively in the less files. */\n
paths: [],\n\n    /* color output in the terminal */\n    color: true,\n\n    /* The strictImports controls whether
the compiler will allow an @import inside of either */\n    * @media blocks or (a later addition) other selector
blocks. */\n    * See: https://github.com/less/less.js/issues/656 */\n    strictImports: false,\n\n    /* Allow
Imports from Insecure HTTPS Hosts */\n    insecure: false,\n\n    /* Allows you to add a path to every
generated import and url in your css. */\n    * This does not affect less import statements that are processed, just
ones */\n    * that are left in the output css. */\n    rootpath: "",\n\n    /* By default URLs are kept as-is, so if you
import a file in a sub-directory */\n    * that references an image, exactly the same URL will be output in the css. */\n
* This option
allows you to re-write URL's in imported files so that the */\n    * URL is always relative to the base imported file
*/\n    rewriteUrls: false,\n\n    /* How to process math */\n    * 0 always - eagerly try to solve all
operations\n    * 1 parens-division - require parens for division\n    * 2 parens | strict - require parens
for all operations\n    * 3 strict-legacy - legacy strict behavior (super-strict)\n    */\n    math: 1,\n\n    /*
Without this option, less attempts to guess at the output unit when it does maths. */\n    strictUnits: false,\n\n
/* Effectively the declaration is put at the top of your base Less file, */\n    * meaning it can be used but it also can
be overridden if this variable */\n    * is defined in the file. */\n    globalVars: null,\n\n    /* As opposed to the
global variable option, this puts the declaration at the */\n    * end of your base file, meaning
it will override anything defined in your Less file. */\n    modifyVars: null,\n\n    /* This option allows you to
specify a argument to go on to every URL. */\n    urlArgs: ""\n  };\n  "import {addDataAttr} from
'./utils';\n  \nimport browser from './browser';\n  \nexport default (window, options) => {\n\n    // use options from the
current script tag data attributes\n    addDataAttr(options, browser.currentScript(window));\n\n    if
(options.isFileProtocol === undefined) {\n      options.isFileProtocol = /^(file|(chrome|safari)(-
extension)?|resource|qrc|app):/.test(window.location.protocol);\n    }\n\n    // Load styles asynchronously (default:
false)\n    // This is set to `false` by default, so that the body\n    // doesn't start loading before the stylesheets
are parsed.\n    // Setting this to `true` can result in flickering.\n    options.async = options.async || false;\n
options.fileAsync = options.fileAsync || false;\n\n    // Interval between watch
polls\n    options.poll = options.poll || (options.isFileProtocol ? 1000 : 1500);\n\n    options.env = options.env ||
(window.location.hostname === '127.0.0.1' ||\n      window.location.hostname === '0.0.0.0' ||\n
window.location.hostname === 'localhost' ||\n      (window.location.port &&\n        window.location.port.length >

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0)  ||\n    options.isFileProtocol          ? 'development'\n    : 'production');\n\n    const dumpLineNumbers
= /!dumpLineNumbers:(comments|mediaquery|all)/.exec(window.location.hash);\n    if (dumpLineNumbers) {\n
options.dumpLineNumbers = dumpLineNumbers[1];\n    }\n\n    if (options.useFileCache === undefined) {\n
options.useFileCache = true;\n    }\n\n    if (options.onReady === undefined) {\n
options.onReady = true;\n
}\n\n    if (options.relativeUrls) {\n
options.rewriteUrls = 'all';\n    }\n};\n", "\n\n// index.js\n// Should expose the
additional browser functions on to the less object\n\n\nimport
{addDataAttr} from './utils';\nimport lessRoot from './less';\nimport browser from './browser';\nimport FM from
 './file-manager';\nimport PluginLoader from './plugin-loader';\nimport LogListener from './log-listener';\nimport
ErrorReporting from './error-reporting';\nimport Cache from './cache';\nimport ImageSize from './image-
size';\n\nexport default (window, options) => {\n    const document = window.document;\n    const less =
lessRoot();\n\n    less.options = options;\n    const environment = less.environment;\n    const FileManager =
FM(options, less.logger);\n    const fileManager = new FileManager();\n
environment.addFileManager(fileManager);\n    less.FileManager = FileManager;\n    less.PluginLoader =
PluginLoader;\n\n    LogListener(less, options);\n    const errors = ErrorReporting(window, less, options);\n    const
cache = less.cache = options.cache || Cache(window, options, less.logger);\n    ImageSize(less.environment);\n\n    //
Setup user functions - Deprecate?\n
    if (options.functions) {\n
less.functions.functionRegistry.addMultiple(options.functions);\n    }\n\n    const
typePattern = /^text\\/(x-)?less$/;\n    function clone(obj) {\n
const cloned = {};\n    for (const prop in obj)
{\n
if (obj.hasOwnProperty(prop)) {\n
cloned[prop] = obj[prop];\n
}\n    }\n    return
cloned;\n    }\n\n    // only really needed for phantom\n    function bind(func, thisArg) {\n
const curryArgs =
Array.prototype.slice.call(arguments, 2);\n    return function() {\n
const args =
curryArgs.concat(Array.prototype.slice.call(arguments, 0));\n
return func.apply(thisArg, args);\n
};\n
}\n\n    function loadStyles(modifyVars) {\n
const styles = document.getElementsByTagName('style');\n
let
style;\n\n    for (let i = 0; i < styles.length; i++) {\n
style = styles[i];\n
if
(style.type.match(typePattern)) {\n
const instanceOptions = clone(options);\n
instanceOptions.modifyVars = modifyVars;\n
const lessText = style.innerHTML || "";\n
instanceOptions.filename = document.location.href.replace(/#.*$/,"");\n
/* jshint loopfunc:true */\n
// use closure to store current style\n
less.render(lessText, instanceOptions,\n
bind((style, e, result) => {\n
if (e) {\n
errors.add(e, 'inline');\n
} else {\n
style.type = 'text/css';\n
if
(style.styleSheet) {\n
style.styleSheet.cssText = result.css;\n
} else {\n
style.innerHTML = result.css;\n
}\n
}, null, style));\n
}\n
}\n\n    function
loadStyleSheet(sheet, callback, reload, remaining, modifyVars) {\n\n
const instanceOptions = clone(options);\n
addDataAttr(instanceOptions, sheet);\n
instanceOptions.mime = sheet.type;\n\n
if (modifyVars) {\n
instanceOptions.modifyVars = modifyVars;\n
}\n\n
function loadInitialFileCallback(loadedFile) {\n
const data = loadedFile.contents;\n
const path = loadedFile.filename;\n
const webInfo =
loadedFile.webInfo;\n\n
const newFileInfo = {\n
currentDirectory: fileManager.getPath(path),\n
filename: path,\n
rootFilename: path,\n
rewriteUrls: instanceOptions.rewriteUrls\n
};\n\n
newFileInfo.entryPath = newFileInfo.currentDirectory;\n
newFileInfo.rootpath =
instanceOptions.rootpath || newFileInfo.currentDirectory;\n\n
if (webInfo) {\n
webInfo.remaining =
remaining;\n\n
const css = cache.getCSS(path, webInfo, instanceOptions.modifyVars);\n
if (!reload && css) {\n
webInfo.local = true;\n
callback(null, css, data, sheet, webInfo, path);\n
return;\n
}\n\n
}\n\n
// TODO add tests around how this behaves when reloading\n
errors.remove(path);\n\n
instanceOptions.rootFileInfo = newFileInfo;\n
less.render(data,
instanceOptions, (e, result) => {\n
if (e) {\n
e.href = path;\n
callback(e);\n
} else {\n
cache.setCSS(sheet.href, webInfo.lastModified, instanceOptions.modifyVars, result.css);\n
}\n
}\n
}

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        callback(null, result.css, data, sheet, webInfo, path);\n            }\n        });\n    }\n\n    fileManager.loadFile(sheet.href, null, instanceOptions, environment)\n        .then(loadedFile => {\n            loadInitialFileCallback(loadedFile);\n        }).catch(err => {\n            console.log(err);\n            callback(err);\n        });\n\n    function loadStyleSheets(callback, reload, modifyVars) {\n        for (let i = 0;\n        i < less.sheets.length; i++) {\n            loadStyleSheet(less.sheets[i], callback, reload, less.sheets.length - (i + 1),\n            modifyVars);\n        }\n    }\n\n    function initRunningMode() {\n        if (less.env === 'development') {\n            less.watchTimer = setInterval(() => {\n                if (less.watchMode) {\n                    fileManager.clearFileCache();\n                    loadStyleSheets((e, css, _, sheet, webInfo) => {\n                        if (e)\n                            errors.add(e, e.href || sheet.href);\n                    } else if (css) {\n                        browser.createCSS(window.document, css, sheet);\n                    }\n                }\n            }, options.poll);\n        }\n    }\n\n    // Watch mode\n    // less.watch = function () {\n        if (!less.watchMode) {\n            less.env = 'development';\n            initRunningMode();\n        }\n        this.watchMode = true;\n        return true;\n    };\n\n    less.unwatch = function () {\n        clearInterval(less.watchTimer);\n        this.watchMode = false;\n        return false;\n    };\n\n    // Synchronously get all <link> tags with the 'rel' attribute set to\n    // \"stylesheet/less\".\n    // less.registerStylesheetsImmediately = () => {\n        const links = document.getElementsByTagName('link');\n        less.sheets = [];\n        for (let i = 0; i < links.length; i++) {\n            if (links[i].rel === 'stylesheet/less' || (links[i].rel.match(/stylesheet/) &&\n            (links[i].type.match(typePattern)))) {\n                less.sheets.push(links[i]);\n            }\n        }\n    };\n\n    // Asynchronously get all <link> tags with the 'rel' attribute set to\n    // \"stylesheet/less\", returning a Promise.\n    // less.registerStylesheets = () => new Promise((resolve, reject) => {\n        less.registerStylesheetsImmediately();\n        resolve();\n    });\n\n    // With this function, it's possible to alter variables and re-render\n    // CSS without reloading less-files\n    // less.modifyVars = record => less.refresh(true, record, false);\n    // less.refresh = (reload, modifyVars, clearFileCache) => {\n        if ((reload || clearFileCache) && clearFileCache !== false) {\n            fileManager.clearFileCache();\n        }\n        return new Promise((resolve, reject) => {\n            let startTime;\n            let endTime;\n            let totalMilliseconds;\n            let remainingSheets;\n            startTime = endTime = new Date();\n            // Set counter for remaining unprocessed sheets\n            remainingSheets = less.sheets.length;\n            if (remainingSheets === 0) {\n                endTime = new Date();\n                totalMilliseconds = endTime - startTime;\n                less.logger.info('Less has finished and no sheets were loaded.);\n                resolve({\n                    startTime,\n                    endTime,\n                    totalMilliseconds,\n                    sheets: less.sheets.length\n                });\n            } else {\n                // Relies on less.sheets array, callback seems to be guaranteed to be called for every element of the array\n                loadStyleSheets((e, css, _, sheet, webInfo) => {\n                    if (e) {\n                        errors.add(e, e.href || sheet.href);\n                        reject(e);\n                        return;\n                    }\n                    if (webInfo.local) {\n                        less.logger.info(`Loading ${sheet.href} from cache.`);\n                    } else {\n                        less.logger.info(`Rendered ${sheet.href} successfully.`);\n                    }\n                    browser.createCSS(window.document, css, sheet);\n                });\n                less.logger.info(`CSS for ${sheet.href} generated in ${new Date() - endTime}ms`);\n                // Count completed sheet\n                remainingSheets--;\n                // Check if the last remaining sheet was processed and then call the promise\n                if (remainingSheets === 0) {\n                    totalMilliseconds = new Date() - startTime;\n                    less.logger.info(`Less has finished. CSS generated in ${totalMilliseconds}ms`);\n                    resolve({\n                        startTime,\n                        endTime,\n                        totalMilliseconds,\n                        sheets: less.sheets.length\n                    });\n                }\n            }\n        }, reload, modifyVars);\n    }\n\n    loadStyles(modifyVars);\n    });\n    less.refreshStyles = loadStyles;\n    return less;\n};\n\n\"export default (less, options) => {\n    const logLevel_debug = 4;\n    const logLevel_info = 3;\n    const logLevel_warn = 2;\n    const logLevel_error = 1;\n\n    // The amount of logging in the javascript console.\n    // 3 - Debug, information and errors\n    // 2 - Information and errors\n    // 1 - Errors\n    // 0 - None\n    // Defaults to 2\n}

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options.logLevel = typeof options.logLevel !== 'undefined' ? options.logLevel : (options.env === 'development' ?
logLevel_info : logLevel_error);\n\n if (!options.loggers) {\n  options.loggers = [{\n    debug:
function(msg) {\n      if (options.logLevel >= logLevel_debug) {\n        console.log(msg);\n
}\n    },\n    info: function(msg) {\n      if (options.logLevel >= logLevel_info) {\n
console.log(msg);\n
    }\n    },\n    warn: function(msg) {\n      if (options.logLevel >= logLevel_warn) {\n
console.warn(msg);\n    }\n    },\n    error: function(msg) {\n      if (options.logLevel >=
logLevel_error) {\n        console.error(msg);\n      }\n    }\n  }];\n  for (let i = 0; i <
options.loggers.length; i++) {\n    less.logger.addListener(options.loggers[i]);\n  };\n  // Cache system is a
bit outdated and could do with work\n\nexport default (window, options, logger) => {\n  let cache = null;\n  if
(options.env !== 'development') {\n    try {\n      cache = (typeof window.localStorage === 'undefined') ? null :
window.localStorage;\n    } catch (_) {};\n  }\n  return {\n    setCSS: function(path, lastModified,
modifyVars, styles) {\n      if (cache) {\n        logger.info(`saving ${path} to cache.`);\n
try {\n          cache.setItem(path, styles);\n          cache.setItem(`${path}:timestamp`, lastModified);\n
          if (modifyVars) {\n            cache.setItem(`${path}:vars`, JSON.stringify(modifyVars));\n
          }\n        } catch (e) {\n          // TODO - could do with adding more robust error handling\n
logger.error(`failed to save "${path}" to local storage for caching.`);\n        }\n      }\n    },\n
getCSS: function(path, webInfo, modifyVars) {\n      const css = cache && cache.getItem(path);\n
const timestamp = cache && cache.getItem(`${path}:timestamp`);\n      let vars = cache &&
cache.getItem(`${path}:vars`);\n      modifyVars = modifyVars || {};\n      vars = vars || '{}';\n      // if not set,
treat as the JSON representation of an empty object\n      if (timestamp && webInfo.lastModified &&\n
(new Date(webInfo.lastModified).valueOf() ===\n        new Date(timestamp).valueOf()) &&\n
JSON.stringify(modifyVars) === vars) {\n          // Use local copy\n          return css;\n        }\n      };\n    },\n  },\n  "\nimport functionRegistry from './../less/functions/function-registry';\n\nexport default () => {\n  function
imageSize() {\n    throw {\n      type: 'Runtime',\n      message: 'Image size functions are not supported in
browser version of less'\n    };\n  }\n  const imageFunctions = {\n    'image-size': function(filePathNode)
{\n      imageSize(this, filePathNode);\n      return -1;\n    },\n    'image-width': function(filePathNode)
{\n      imageSize(this, filePathNode);\n      return -1;\n    },\n    'image-height': function(filePathNode)
{\n      imageSize(this, filePathNode);\n      return -1;\n    }\n  };\n  functionRegistry.addMultiple(imageFunctions);\n  },\n  ],\n  "names":["extractId","href","replace","addDataAttr","option
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S8E,EACjC77B,EAAKnpB,OAAOxB,KAAK,uCAAuC0mD,QACxDvH,EAAQ,CACJqH,YACAC,UACAC,oBAC
Ab,OAAQI7B,EAAKk7B,OAAOlnD,UAG5B8nD,EAAU,IAAI/E,OACf8D,EAAQte,GAGfme,EAAWne,OAIInBvc
,EAAKi8B,cAAgBvB,EACd16B,EH/PEvK,CAAK5gB,OAAQtC,IAU1B,SAAS2pD,GAAgB/G,GACjBA,EAAK1
+C,UACL4iD,QAAQjkD,KAAK+/C,GAEZ5iD,GAAQojD,OACTxhD,GAACKM,YAAYsjD,WAZzBljD,OAAOmr
B,KAAOA,GAgBVzIB,GAAQumD,UACJ,SAASroC,KAAK5b,OAAO6hD,SAAS1/B,OAC9BgJ,GAACKm7B,QA
GJ5oD,GAAQojD,QACT3zB,GAAM,oCACN7tB,GAAOpB,SAASoB,MAAQpB,SAASqB,qBAAqB,QAAQ,IAC9
D2jD,GAAQhID,SAASU,cAAc,UAEzBqC,KAAO,WACTiiD,GAAMnkD,WACNmKd,GAAMnkD,WAAWc,QA
AUstB,GAE3B+1B,GAAMlkD,YAAYd,SAASe,eAAekuB,KAG9C7tB,GAACKN,YAAYkkD,KAERb/3B,GAAKu7
B,iCACLv7B,GAAK8B,iBAAmBn8B,GAAK47B,QAAqB,gBAAb57B,GAAKg4B,KAAuB7D,KAAK+H,GAAi
BA" }

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* <http://lesscss.org>

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1.406 psmisc 23.6-1

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1.407 safestring 4.1.25

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SafeString to Number conversion

Examples of SafeString to Number conversions and comparing these to the results from String methods

by Matthew Ford

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www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

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SafeString Case changes
Examples of how to change the case of a SafeString

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SafeString constructors and assignments
Examples of how to create SafeStrings and how to assign SafeStrings from other data types
also see the SafeStringFromArray, SafeStringFromCharPtr and SafeStringFromCharPtrWithSize examples

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/* SafeStringWithArraysOfCstrings.ino

Example of using SafeString for working with char[][xx]

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SafeString startsWith(), startsWithIgnoreCase(), endsWithCharFrom() and endsWith()

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sfStream.ino

SafeStringStream Unit test

Example of using SafeStringStream

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/*

Blink

Turns an led on for one second, then off for one second, repeatedly.

Most Arduinos have an on-board led you can control. On the UNO, MEGA and ZERO it is attached to digital pin 13, on MKR1000 on pin 6. led is set to the correct led pin independent of which board is used.
If you want to know what pin the on-board led is connected to on your Arduino model, check the Technical Specs of your board at:
<https://www.arduino.cc/en/Main/Products>

modified 8 May 2014
by Scott Fitzgerald
modified 2 Sep 2016
by Arturo Guadalupi
modified 8 Sep 2016
by Colby Newman

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<http://www.arduino.cc/en/Tutorial/Blink>
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SafeString replace()
Examples of SafeString replace for chars and strings

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SafeStringReader_Assign.ino

This example = to SafeStringReader

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SafeString substring()
Examples of SafeString substring

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SafeSting length(), trim()

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/*

SafeString from char* with specified size constructor
Examples of how to create SafeStrings from an existing pointer to a char[]
also see the SafeString_ConstructorAndDebugging, SafeStringFromArray and SafeStringFromCharPtr
examples

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/*

SafeStringReader_flushInput.ino

This example flushes any initial input and also starts flushing if "flush" is found in the text stream

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/*

Appending to SafeStrings using the += operator and concat()

Examples of how to append different data types to SafeStrings

Also has examples of using hasError() method

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/*

SafeString charAt() and setCharAt()

Examples of how to get and set characters of a SafeString

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```

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Comparing SafeStrings

Examples of how to compare SafeStrings using the comparison operators

by Matthew Ford

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Modified from String Examples by Tom Igoe

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www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

*/

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```
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```

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/*

Tokenizing SafeStrings and converting to numbers

Examples of how to use the nextToken() and toLong() and toDouble() to parse a CSV line

by Matthew Ford

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*/

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```
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```

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/*

OBD_Processor.ino for SafeString V4.0.0+

Example of using SafeString to process Car OnBoardData

by Matthew Ford

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SSring indexOf() and lastIndexOf()

by Matthew Ford

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/*

SafeString removeFrom(), removeBefore(), remove(), removeLast(), keepLast()

Examples of SafeString remove

by Matthew Ford

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/*

SafeString readUntil, non-blocking until delimiter found

Example of how to use the non-blocking readUntil() method to parse a CSV line

by Matthew Ford

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/*

SafeString.cpp V2.0.0 static memory SafeString library modified by
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extensively modified from

WString.cpp - SafeString library for Wiring & Arduino
...mostly rewritten by Paul Stoffregen...
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/* SafeStringInClasses_1.ino

Example of using SafeString for Class char[]s

by Matthew Ford
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/*

SafeString from char* constructor

Examples of how to create SafeStrings from an existing pointer to a char[]

also see the SafeString_ConstructorAndDebugging, SafeStringFromArray and
SafeStringFromCharPtrWithSize examples

by Matthew Ford

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/*

Prefixing to SafeStrings using the -= operator and prefix()

Examples of how to prefix different data types to SafeStrings

by Matthew Ford

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/*

Tokenizing SafeStrings and converting to numbers
Examples of how to use the stoken and toLong() and toDouble() to parse a CSV line

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/*

Fixed 9 Formatting of double/float/long/ing

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/*

Test Errors for Assignment to SafeStrings using the = operator

by Matthew Ford
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/*

SafeString from char[] constructor

Examples of how to create SafeStrings from an existing char[]

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fac1370/examples/SafeString_Tests/SafeStringFromArray/SafeStringFromArray.ino

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/*

SafeStringReader_GPS.ino

This example reads GPS data from a SafeStringStream continuously using a SafeStringReader

by Matthew Ford

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/*

Appending to SafeStrings using print()/println()

Examples of how to use the standard print()/println() to append and format different data types to SafeStrings

by Matthew Ford

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1.408 libsepol 3.4-2

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Any executables

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

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Version 3, 29 June 2007

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1.414 libuser 0.62-23.el8

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1.415 lua 5.3.4-11.el8

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END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library.

It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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it under the terms of the GNU Lesser General Public License as
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Lesser
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/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
<http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

EFFECTIVE

OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

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University of Missouri - Rolla Phone: (573) 341-6679
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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would

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I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

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In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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Re: [Cracklib-devel] cracklib license
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Attachments: Message
as HTML

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> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use
nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])

by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623

for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])

by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311

for <nneul@neulinger.org>; Mon, 1 Oct

2007 09:59:50 -0700 (PDT)

Received: from [82.68.43.14] (helo=[192.168.1.3])

by rutherford.zen.co.uk with esmtp (Exim 4.50)

id 1IcOcX-0004Qt-6L

for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000

Mime-Version: 1.0 (Apple Message framework v752.2)

In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>

<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed

Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>

Content-Transfer-Encoding: 7bit

From: Alec Muffett <alecm@crypticide.com>

Subject: Re: cracklib license

Date: Mon, 1 Oct 2007 17:59:46 +0100

To: Nathan Neulinger <nneul@neulinger.org>

X-Mailer: Apple Mail (2.752.2)

X-Originating-Rutherford-IP: [82.68.43.14]

Return-Path: alecm@crypticide.com

X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

Status:

RO

Content-Length: 585

Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk

>

- > Any chance you could write me a self-contained email stating clearly
- > that the license is being changed to GPL, so I could include that
- > email
- > in the repository and clean up the repository/tarballs? I have all the
- > original discussion, but something succinct and self contained
- > would be
- > ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

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> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address

that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:

585

Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk

>

> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that

> email

> in the repository and clean up the repository/tarballs? I have all the

> original discussion, but something succinct and self contained

> would be

> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.420 findutils 4.6.0-20.el8

1.420.1 Available under license :

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Version 3, 29 June 2007

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```
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```

```
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1.427 passwd 0.80-3.e18

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1.428 diffutils 3.6-6.el8

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1.432 selinux 2.9-5.el8

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1.433 zstd 1.4.4

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1.434 jsonpointer 2.0

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1.435 gpt-fdisk 1.0.5

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