



Open Source Used In Crosswork Change_Automation 4.5.2

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Text Part Number: 78EE117C99-1797386742

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1.305 brotli 1.0.7-6ubuntu0.1

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- 1.306 prometheus-client 0.3.0**
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- 1.309 libpython3-8-minimal 3.8.10-0ubuntu1~20.04.6**
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- 1.310 rtmpdump 2.4+20151223.gitfa8646d.1-2build1**
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1.325 prometheus-common 0.37.0

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1.327 gmp 6.2.0+dfsg-4ubuntu0.1

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1.329 gogo-protobuf 1.3.2

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1.330 tzdata 2022g-0ubuntu0.20.04.1

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1.333 python-pip 20.0.2-5ubuntu1.6

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1.2 python-certifi 2019.11.28

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.3 readline 8.0

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section 10

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1.4 distlib 0.3.0

1.4.1 Available under license :

A. HISTORY OF THE SOFTWARE

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

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

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

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

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

3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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

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

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

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- Nicolas Cadou
- Godefroid Chapelle
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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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```
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1.6 wheel 0.34.2

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1.7 gorilla 1.4.1

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1.8 nuid 1.0.1

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1.9 libyaml 0.2.5

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1.10 python3-asn1crypto 0.24.0

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1.11 idna 2.8

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

import io, sys

```

from setuptools import setup

def main():

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
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            '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',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
        'test_suite': 'tests',
    }

    setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.12 appdirs 1.4.3

1.12.1 Available under license :

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1.13 pyparsing 2.4.6

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1.18 p11-kit 0.23.20-1ubuntu0.1

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1.19 iconv 2.31

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Version 3, 29 June 2007

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The

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1.20 libsodium 1.0.18

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1.21 libcap-ng 0.7.9 2.1build1

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@item

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```
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Version 3, 29 June 2007

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1.25 e2fsprogs 1.45.5 2ubuntu1

1.25.1 Available under license :

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

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

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

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

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

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

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

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

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

`echo \$(my\_dir) | sed -e 's;lib/;;'`/\$(BSD_LIB) \$(BSD_LIB))

install-shlibs install:: \$(BSD_LIB)

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

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

\$(DESTDIR)\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

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

clean::

```
$(RM)
```

```
-rf pic
```

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

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

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```

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```

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Theodore Ts'o
23-June-2007

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

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

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

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

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1.26 findutils 4.7.0 1ubuntu1

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```
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1.27 ncurses 6.2 0ubuntu2

1.27.1 Available under license :

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1.28 libffi 3.3 4

1.28.1 Available under license :

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1.29 libsemanage-common 3.0 1build2

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1.30 coreutils 8.30 3ubuntu2

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1.33 mawk 1.3.4.20200120 2

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Calling this script `install-sh` is preferred over `install.sh`, to prevent 'make' implicit rules from creating a file called `install` from it when there is no `Makefile`.

This script is compatible with the BSD `install` script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's `install` programs.

Files: `debian/*`

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1.34 python-setuptools 45.2.0-1

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1.35 c-ares 1.17.0

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1.36 ubuntu-keyring 2020.02.11.4

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1.37 netmiko 2.4.1

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1.38 jsonpath-ng 1.4.3

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1.39 kafka-python 1.4.5

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1.40 python 3.8.10

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.41 cachecontrol 0.12.6

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1.42 contextlib2 0.6.0

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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
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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1.44 lockfile 0.12.2

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1.45 python-requests 2.22.0

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1.46 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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1.47 ansible 2.10.0

1.47.1 Available under license :

This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on Tue, 17 Apr 2012 12:19:47 -0400.

It was downloaded from <https://github.com/ansible/ansible.git>

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bugfixes:

- "Prevent templating unused variables for {% include %}" (<https://github.com/ansible/ansible/issues/68699>)

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Version 3, 29 June 2007

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1.52 importlib-metadata 4.8.1

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1.53 typing-extensions 3.10.0.2

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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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2.1.1	2.1+2.0.1	2001	PSF	yes
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1.56 ansible-base 2.10.14

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bugfixes:

- "Prevent templating unused variables for {% include %}" (<https://github.com/ansible/ansible/issues/68699>)"

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1.61 gogoprotobuf 1.3.2

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Go support for Protocol Buffers - Google's data interchange format

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1.66 zap 1.17.0

1.66.1 Available under license :

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1.67 urfave-cli 1.20.0

1.67.1 Available under license :

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```
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 */
```

Found in path(s):

```
* /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidationFilter.java
* /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/util/SamlUtils.java
*
/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidator.java
* /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/authentication/Saml11AuthenticationFilter.java
```

1.68 pretty 1.2.0

1.68.1 Available under license :

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1.69 charset-normalizer 2.0.7

1.69.1 Available under license :

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1.70 robot-telemetry_proto 0.0.0-20210520062046-a73bb180cba4

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```
/*  
 * Generated by ncsc --mib2yang-std  
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib  
 */  
/*  
 * This YANG module has been generated by smidump 0.5.0:  
 *  
 *   smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB  
 *  
 * Do not edit. Edit the source file instead!  
 */
```

```
module CISCO-IMAGE-LICENSE-MGMT-MIB {  
  
    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";  
    prefix "cisco-image-license-mgmt-mib";  
  
    import ENTITY-MIB {  
        prefix "entity-mib";  
    }  
  
    import SNMP-FRAMEWORK-MIB {  
        prefix "snmp-framework";  
    }  
  
    import ietf-yang-smiv2 {  
        prefix "smiv2";  
    }  
  
    organization
```

"Cisco Systems Inc.";

contact

"Cisco Systems
Customer Service
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San Jose, CA 95134
USA
Tel: +1 800 553 -NETS
E-mail: cs-snmp@cisco.com";

description

"The MIB module for managing the running image level of a Cisco device. Cisco's licensing mechanism provides flexibility to run a device on a chosen image

level.

This mechanism is referred to as image level licensing. Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for the configured image level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity

license on the device.

- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required

to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely.";

```
revision 2007-10-16 {
  description
    "Initial version of this MIB module.";
}
```

```
typedef BootImageLevel {
  type binary {
    length "0..255";
  }
  description
    "This textual convention is used to define
    the image level.
```

```
    If the device is running at advipservices
    image level, then the boot image level will
    be 'advipservices'.
}
```

```
typedef LicenseNameList
```

```

{
  type binary {
    length "0..255";
  }
  description
    "This textual convention is used to define
    the list of license names. If multiple licenses
    are present then this string will contain all
    the licenses seperated by the ',' character.

    If the license required to run a device at
    advipservices image level is advipservices and
    advsecurity, then the license name list will be
    'advipservices,advsecurity'.";
}

container CISCO-IMAGE-LICENSE-MGMT-MIB {
  config false;

  container ciscoImageLicenseMgmtMIBObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";

    leaf cilmEULAAccepted {
      type boolean;
      description
        "This object when set to TRUE means that the user has
        accepted the END USER LICENSE AGREEMENT. This object
        has to be set to TRUE by the user before using the
        objects in the cilmBootImageLevelTable to configure
        the license.";
      smiv2:defval
        "false";
      smiv2:max-access "read-write";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
    }
  }

  container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

    leaf cilmImageLevelChangedNotif {
      type boolean;
      description
        "Specify whether or not a notification should be
        generated on the detection of change in next boot
        image level.

```

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered.";

reference

"See also RFC3413 for explanation that notifications are under the ultimate control of the MIB module in this document.";

smiv2:defval "false";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";

}

}

container cilmBootImageLevelTable {

description

"A table that contains the configuration information of current and next boot image level. This table contains entries for each software module running in an image loaded in the device. The software module is identified by cilmModuleName and the device is identified by entPhysicalIndex.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

list cilmBootImageLevelEntry {

key "entPhysicalIndex cilmModuleName";

description

"An entry in the table for each module containing the list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

}

}

```

leaf cilmModuleName {
  type snmp-framework:SnmpAdminString;
  description
    "This object is used as one of the two indices in
    cilmBootImageLevelTable. This object indicates the module
    name of the software package. There can be multiple
    modules in an image performing specific functionality.
    For example, in a wireless image there can be two modules
    - a base image module and a wireless module.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
}

```

```

leaf cilmCurrentImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the current image level that
    the module is running.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
}

```

```

leaf cilmConfiguredBootImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the configured image level
    of the module for the next boot.

    Note: The configured next boot image level may not
    be the actual next boot image level. The actual next
    boot image level is denoted by cilmNextBootImageLevel
    which is determined based on the license availability.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}

```

```

leaf cilmNextBootImageLevel {
  type
cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the next boot image level. The
    next boot image level can be different from configured
    level. The next boot image level is determined based
    on the availability of required license.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
}

```



```
leaf cilmCurrentLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    currently used license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in
    CISCO-LICENSE-MGMT-MIB.
```

Note: The license store index can be '0' if no license is installed and device is running base image.";

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
```

```
}
```

```
leaf cilmCurrentLicenseIndex {
  type uint32;
  description
    "This object indicates the license index of the currently used
    license. This object has the same value as clmgmtLicenseIndex and
    uniquely identifies an entry in clmgmtLicenseInfoTable in
    CISCO-LICENSE-MGMT-MIB.
```

Note: The license index can be '0' if no license is installed and device is running base image.";

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
```

```
}
```

```
leaf cilmNextBootLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    next boot license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in
```

```
CISCO-LICENSE-MGMT-MIB.
```

Note: The license store index can be '0' if no license is installed for the next boot.";

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
```

```
}
```

```
leaf cilmNextBootLicenseIndex {
```

```

type uint32;
description
"This object indicates the license index of the next boot
license. This object has the same value as clmgmtLicenseIndex
and uniquely identifies an entry in clmgmtLicenseInfoTable in
CISCO-LICENSE-MGMT-MIB.

```

Note: The license index can be '0' if no license is installed for the next boot.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";

```

```

}
}
}

```

```

container cilmImageLevelToLicenseMapTable {
description
"This table contains the mapping between different
image levels of each modules in the
image and the

```

```

license required to run the modules at a particular
image level. This table can be used to identify the
different image levels and the appropriate licenses
required for each.";

```

```

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";

```

```

list cilmImageLevelToLicenseMapEntry {
key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
description
"An entry in the table containing the following
information.

```

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license.";

```

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

```

```

leaf entPhysicalIndex {
type leafref {
path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

```

```

}
}

```

```

leaf cilmModuleName {
type leafref {

```

```

    path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
  }
}

```

```

leaf cilmImageLicenseMapIndex {
  type uint32;
  description
    "This is a running index used to identify an entry
    of this table.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
}

```

```

leaf cilmImageLicenseImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the image level at which
    a module can be run. A module can be run at
    different image levels. An entry will be created
    in this table for every module and image level
    combination.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
}

```

```

leaf cilmImageLicenseName {
  type cisco-image-license-mgmt-mib:LicenseNameList;
  description
    "This object indicates the list of licenses needed to
    be installed for the module to run at the image level
    mentioned by cilmImageLicenseImageLevel object of this
    entry.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
}

```

```

leaf cilmImageLicensePriority {
  type uint32 {
    range "1..255";
  }
  description
    "This object indicates the priority of the image level
    mentioned by cilmImageLicenseImageLevel object of this
    entry. The image level with the highest priority license
    will be considered as the default level in the absense of
    next boot image level configuration. For example if there

```

are three licenses l1, l2 and l3 in the ascending order of

priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";

```
}  
}  
}  
}
```

notification cilmBootImageLevelChanged {

description

"This notification is triggered when next boot image level is changed in the management entity. The current and configured image level are indicated by cilmCurrentImageLevel and cilmConfiguredBootImageLevel objects respectively.";

smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

container object-1 {

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

```
}  
}
```

leaf cilmModuleName {

type leafref {

path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-mgmt-mib:cilmModuleName";

```
}  
}
```

leaf cilmCurrentImageLevel {

type leafref {

path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-mgmt-mib:cilmCurrentImageLevel";

```
}  
}  
}
```

```

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf cilmModuleName {
        type leafref {
            path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
        }
    }

    leaf cilmConfiguredBootImageLevel {
        type leafref {
            path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmConfiguredBootImageLevel";
        }
    }
}

smiv2:alias "ciscoImageLicenseMgmtMIB" {
    smiv2:oid "1.3.6.1.4.1.9.9.640";
}

smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.0";
}

smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";
}

smiv2:alias "cilmNotifCntl" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
}

smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2";
}

smiv2:alias "cilmModuleCompliances" {

```

```

smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

smiv2:alias "cilmModuleGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

}

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--

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--

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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,
NOTIFICATION-TYPE
FROM SNMPv2-SMI
jnxLicenseMibRoot
FROM JUNIPER-SMI
DisplayString
FROM SNMPv2-TC;

jnxLicenseMIB MODULE-IDENTITY

LAST-UPDATED "201007090000Z"

ORGANIZATION "Juniper Networks, Inc."

CONTACT-INFO

"Juniper Technical Assistance Center

Juniper Networks, Inc.

1194 N. Mathilda Avenue

Sunnyvale, CA 94089

E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB
for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

-- *****

-- License table for installed licenses

-- *****

jnxLicenseInstallTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "This table contains installed feature license information."

::= { jnxLicenseInstallObjects 1 }

```

jnxLicenseInstallEntry OBJECT-TYPE
    SYNTAX      JnxLicenseInstallEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION  "A row of giving installed
feature license information."
    INDEX       { IMPLIED jnxLicenseId }
    ::= { jnxLicenseInstallTable 1 }

```

```

JnxLicenseInstallEntry ::= SEQUENCE {
    jnxLicenseId      DisplayString,
    jnxLicenseVersion INTEGER,
    jnxLicenseDeviceId DisplayString,
    jnxLicenseType    INTEGER,
    jnxLicenseKeys    OCTET STRING
}

```

```

jnxLicenseId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION  "Installed feature licenses Id."
    ::= { jnxLicenseInstallEntry 1 }

```

```

jnxLicenseVersion OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION  "License Version information"
    ::= { jnxLicenseInstallEntry 2 }

```

```

jnxLicenseDeviceId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION  "License Device Id "
    ::= { jnxLicenseInstallEntry
3 }

```

```

jnxLicenseType OBJECT-TYPE
    SYNTAX      INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION  "License type information"
    ::= { jnxLicenseInstallEntry 4 }

```

```

jnxLicenseKeys OBJECT-TYPE

```



```

SYNTAX      OCTET STRING
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION "License Keys"
::= { jnxLicenseInstallEntry 5 }

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF JnxLicenseFeatureListEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION "list of features supporting Licensing."
    ::= { jnxLicenseInstallObjects 2 }

jnxLicenseFeatureListEntry OBJECT-TYPE
    SYNTAX      JnxLicenseFeatureListEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION "A row of licensed features."
    INDEX       { jnxLicenseFeatureId
    }
    ::= { jnxLicenseFeatureListTable 1 }

JnxLicenseFeatureListEntry ::= SEQUENCE {
    jnxLicenseFeatureId      INTEGER,
    jnxLicenseFeatureName    DisplayString,
    jnxLicenseFeatureDescr   DisplayString,
    jnxLicenseFeatureLicenseId DisplayString,
    jnxLicenseFeatureLicenseUsed    INTEGER,
    jnxLicenseFeatureLicenseInstalled    INTEGER,
    jnxLicenseFeatureLicenseNeeded    INTEGER
    }

jnxLicenseFeatureId OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION "Feature Id to point an entry in this table"
    ::= { jnxLicenseFeatureListEntry 1 }

jnxLicenseFeatureName OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "Feature Name"
    ::= { jnxLicenseFeatureListEntry 2 }

```

jnxLicenseFeatureDescr OBJECT-TYPE

SYNTAX

DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Feature Name"

::= { jnxLicenseFeatureListEntry 3 }

jnxLicenseFeatureLicenseId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Feature License Id"

::= { jnxLicenseFeatureListEntry 4 }

jnxLicenseFeatureLicenseUsed OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Licenses Used"

::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Licenses Installed"

::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Licenses Needed"

::= { jnxLicenseFeatureListEntry 7 }

-- *****

-- License configuration parameters

-- *****

jnxLicenseRenewBeforExpiration OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License renew lead time before expiration in days."

```
::= { jnxLicenseSettings 1 }
```

jnxLicenseRenewInterval OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License checking interval in hours."

```
::= { jnxLicenseSettings 2 }
```

jnxLicenseAutoUpdate OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License auto update URL of a license server."

```
::= { jnxLicenseSettings
```

```
3 }
```

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

```
-- define branches for jnx license traps
```

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

jnxLicenseGraceExpired NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is expired"

```
::= { jnxLicenseNotifications 1 }
```

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is about to expire"

```
::= { jnxLicenseNotifications 2 }
```

jnxLicenseAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license period for

```

        feature identified by jnxLicenseFeatureName is about to expire"
        ::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE
    OBJECTS { jnxLicenseFeatureName }
    STATUS current
    DESCRIPTION
        "The SNMP trap that is generated when the feature is used more
        times than as specified in number of licenses allowed for feature
        as identified by jnxLicenseFeatureName"
        ::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE
    OBJECTS { jnxLicenseFeatureName }
    STATUS current
    DESCRIPTION
        "The SNMP trap that is generated when the license for feature
        identified by jnxLicenseFeatureName is not valid i.e. either expired or
        not available."
        ::= { jnxLicenseNotifications 5 }

END
/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*   smidump -f yang CISCO-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

module CISCO-LICENSE-MGMT-MIB {

    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-LICENSE-MGMT-MIB";
    prefix "cisco-license-mgmt-mib";

    import ENTITY-MIB {
        prefix "entity-mib";
    }

    import INET-ADDRESS-MIB {
        prefix "inet-address";
    }

```

```
import SNMP-FRAMEWORK-MIB {  
    prefix "snmp-framework";  
}
```

```
import SNMPv2-TC {  
    prefix "snmpv2-tc";  
}
```

```
import ietf-yang-smiv2 {  
    prefix "smiv2";  
}
```

```
organization  
    "Cisco Systems Inc.";
```

```
contact  
    "Cisco Systems  
    Customer Service
```

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com";

```
description  
    "The MIB module for managing licenses on the system.
```

The licensing mechanism provides flexibility to enforce licensing for various features in the system.

The following text introduces different concepts and terms those are necessary to understand the MIB definition and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a device. It comprises of product ID, version ID and serial number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device identifiers in the system. For example, the license can be locked to the UDI value of one of the devices

in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:

Metered

licenses are valid for limited period of time

and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal

as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between

a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be

presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost

ticket as proof of revocation to

Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action.

Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup

action.

STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index or one of the index for tables in this MIB as needed.";

```
revision 2012-04-19 {
description
"This version of the MIB adds support for Permanent Right to use (RTU)
licensing. The revisions are:
o Updated clmgmtLicenseType object to support the following new
types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2011-04-19 {
description
"This version of the MIB adds support for Right to use (RTU)
licensing. The revisions are:
o Added RTU license definition to MIB description above.
o Updated clmgmtLicenseType object to support the following new
types of license:
evalRightToUse
rightToUse
o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
o Added following objects to clmgmtLicensableFeatureTable
clmgmtFeaturePeriodUsed
o Added the following notifications
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition
o Added the following conformance groups
clmgmtLicenseRTUGroup
clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2008-11-21 {
description
"This version of the MIB adds support for subscription
licensing. Subscription licenses provide software
enforcement for a licensed feature for a fixed calendar
period. The revisions are:
o Updated clmgmtLicenseType object to support the following three
new types of licenses:
paidSubscription
evaluationSubscription
```

```

        extensionSubscription
    o Added following objects to clmgmtLicenseInfoTable
        clmgmtLicenseStartDate
        clmgmtLicenseEndDate
    o Added following objects to clmgmtLicensableFeatureTable
        clmgmtFeatureStartDate
        clmgmtFeatureEndDate
    o Added the following notifications
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
        clmgmtLicenseSubscriptionExpired
    o Added the following conformance groups
        clmgmtLicenseSubscriptionGroup
        clmgmtLicenseSubscriptionUsageNotifGroup
    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

```

```

revision 2006-10-03 {
    description
        "Initial version of this MIB module.";
}

```

```

typedef ClmgmtLicenseIndex {
    type uint32 {
        range "1..4294967295";
    }
    description
        "A unique value, for each license in the managed system.
        It is not necessary to have values assigned contiguously.
        The value for each license must remain constant
        at least from one re-initialization of the entity's
        network management system to the next re-initialization";
}

```

```

typedef ClmgmtLicenseIndexOrZero {
    type uint32;
    description
        "This textual convention is an extension of the ClmgmtLicenseIndex
        convention.
        The latter defines a greater than zero value
        used to identify a license in the managed system. This
        extension permits the additional value of zero. The value
        zero is object-specific and must therefore be defined as
        part of the description of any object which uses this
        syntax. Examples of the usage of zero might include
        situations where license was not present or unknown.";
}

```

```
typedef ClmgmtLicenseTransferProtocol {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "local" {
            value "2";
        }
        enum "tftp" {
            value "3";
        }
        enum "ftp" {
            value "4";
        }
        enum "rcp" {
            value "5";
        }
        enum "http" {
            value "6";
        }
        enum "scp" {
            value "7";
        }
        enum "sftp" {
            value "8";
        }
    }
    description
    "The transfer protocol that should be used for copying files
    when performing license management. When
    the protocol is
    set to local(2), local file system (flash or disk) is used.
    Different agents may support different transfer protocols
    and the management application is expected to some how determine
    which protocol is supported and use.";
}
```

```
typedef ClmgmtLicenseActionState {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "pending" {
            value "2";
        }
        enum "inProgress" {
            value "3";
        }
    }
}
```

```

enum "successful" {
    value "4";
}
enum "partiallySuccessful" {
    value "5";
}
enum "failed" {
    value "6";
}
}
description
"The state of license action execution.

none(1)          - action is not yet scheduled to be
                  executed.

pending(2)        - All the required parameters for the
                  action are set and the action is
                  scheduled
to be executed.

inProgress(3)     - action execution has started and is
                  in progress.

successful(4)     - action has completed successfully.

partiallySuccessful(5) - action has completed, but was
                  partially successful. Management
                  application can query additional MIB
                  objects to know what is successful
                  and what has failed. These additional
                  objects are listed in the
                  description of the corresponding
                  action tables.

failed(6)         - action has failed.";
}

typedef ClmgmtLicenseActionFailCause {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "generalFailure" {
            value "2";
        }
        enum "transferProtocolNotSupported" {
            value

```

```

"3";
}
enum "fileServerNotReachable" {
    value "4";
}
enum "unrecognizedEntPhysicalIndex" {
    value "5";
}
enum "invalidLicenseFilePath" {
    value "6";
}
enum "invalidLicenseFile" {
    value "7";
}
enum "invalidLicenseLine" {
    value "8";
}
enum "licenseAlreadyExists" {
    value "9";
}
enum "licenseNotValidForDevice" {
    value "10";
}
enum "invalidLicenseCount" {
    value "11";
}
enum "invalidLicensePeriod" {
    value "12";
}
enum "licenseInUse" {
    value "13";
}
enum "invalidLicenseStore" {
    value "14";
}
enum "licenseStorageFull" {
    value "15";
}
enum "invalidPermissionTicketFile" {
    value "16";
}
enum "invalidPermissionTicket" {
    value "17";
}
enum "invalidRehostTicketFile" {
    value "18";
}
enum "invalidRehostTicket"

```

```

{
    value "19";
}
enum "invalidLicenseBackupFile" {
    value "20";
}
enum "licenseClearInProgress" {
    value "21";
}
enum "invalidLicenseEULAFile" {
    value "22";
}
}
description
"Reason for license action failure. Defines error codes for
all the license actions.

```

none(1) - action execution has not
 started yet. If the action
 is completed and the action
 is successful, then also
 none(1) is returned to
 indicate that there are no
 errors.

generalFailure(2) - General licensing failure.
 This will be used for resource
 unavailability failures.

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not
 supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
 valid

invalidLicenseFilePath(6) - The license file path is not
 accessible.

invalidLicenseFile(7) - Contents of license file are
 not valid.

invalidLicenseLine(8) - License string in the license
 file is not valid.

licenseAlreadyExists(9) - Management application is trying
 to install a license that already
 exists.

licenseNotValidForDevice(10) - This license is not valid for
 the device/entPhysicalIndex
 specified.

invalidLicenseCount(11) - Invalid count for this counted
 license.


```

invalidLicensePeriod(12) - Validity period is invalid for
                           this expiring license.
licenseInUse(13)          - License file is in use by a
                           feature/image.
invalidLicenseStore(14)   - License store is not valid.
licenseStorageFull(15)    - There is no more space in the
                           license storage.
invalidPermissionTicketFile(16) - The permission ticket file
                               path is not accessible.
invalidPermissionTicket(17) - The permission ticket file
                               contents are not valid.
invalidRehostTicketFile(18) - The rehost ticket file path is
                               not accessible.
invalidRehostTicket(19)   - The rehost ticket file contents
                               are not valid.
invalidLicenseBackupFile(20) - License backup store path
                               is not accessible.
licenseClearInProgress(21) - When license clear action is
                               in progress, license backup
                               action is not permitted to
                               avoid race conditions. This
                               error code is sent back in
                               response to a license backup
                               action when a license clear
                               action is in progress or in
                               pending state. Try again in few
                               seconds.
invalidLicenseEULAFile(22) - EULA file path is not accessible.";
}

```

```

container CISCO-LICENSE-MGMT-MIB {
  config false;

```

```

  container clmgmtLicenseConfiguration {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

```

```

leaf clmgmtNextFreeLicenseActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object contains appropriate value for
    clmgmtLicenseActionIndex that can be used to create
    an entry in clmgmtLicenseActionTable. The management application
    should read this object first and then use this as the

```

value for clmgmtLicenseActionIndex to avoid collisions when creating entries in clmgmtLicenseActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated.";

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";
  }
}

container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

  leaf clmgmtNextFreeDevCredExportActionIndex {
    type uint32;
    description
      "This object contains appropriate value for
      clmgmtDevCredExportActionIndex that can be used to create
      an entry in clmgmtDevCredExportActionTable. The management
      application should read this object first and then use this
      as the value for clmgmtDevCredExportActionIndex to avoid
      collisions when creating entries in
      clmgmtDevCredExportActionTable. Following this approach does
      not guarantee collision free row creation, but will reduce
      the probability. The collision will happen if two
      management applications read this object at the same time and
      attempt to create an entry
      with this value at the same time.
      In this case, the management application whose request is
      processed after the first request will get an error and the
      process of reading this object and entry creation needs to be
      repeated.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
  }
}

container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

  leaf clmgmtLicenseUsageNotifEnable {
    type boolean;

```

description

"This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:

- clmgmtLicenseExpired
- clmgmtLicenseExpiryWarning
- clmgmtLicenseUsageCountExceeded
- clmgmtLicenseUsageCountAboutToExceed
- clmgmtLicenseSubscriptionExpiryWarning
- clmgmtLicenseSubscriptionExtExpiryWarning
- clmgmtLicenseSubscriptionExpired
- clmgmtLicenseEvalRTUTransitionWarning
- clmgmtLicenseEvalRTUTransition";

smiv2:defval "true";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";

}

leaf clmgmtLicenseDeploymentNotifEnable {

type boolean;

description

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

- clmgmtLicenseInstalled
- clmgmtLicenseCleared
- clmgmtLicenseRevoked
- clmgmtLicenseEULAAccepted";

smiv2:defval "true";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";

}

leaf clmgmtLicenseErrorNotifEnable {

type boolean;

description

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

- clmgmtLicenseNotEnforced";

smiv2:defval "true";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";

}

}

container clmgmtLicenseActionTable {

description

"A table for invoking license management actions. Management application must create a row in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of `clmgmtLicenseAction` for more information on what these actions do on the device.

Once the request completes, the management application should

retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";

list `clmgmtLicenseActionEntry` {
key "`clmgmtLicenseActionIndex`";

description

"An entry for each action that is being executed or was executed recently. The management application executes an action

by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects are set to valid values, management application triggers action

execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgmtLicenseActionRowStatus` to `destroy(6)` when `clmgmtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying `clmgmtLicenseActionState`. If the action is still in `pending(2)` or in `inProgress(3)` state, the management application need to check back again after few seconds. Once the action completes and status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgmtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgmtLicenseActionResultTable`.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. `clmgmtLicenseActionTransferProtocol`
- b. `clmgmtLicenseServerAddressType`
 - c. `clmgmtLicenseServerAddress`
 - d. `clmgmtLicenseServerUsername`
 - e. `clmgmtLicenseServerPassword`
 - f. `clmgmtLicenseFile`
 - g. `clmgmtLicenseStore`
 - h. `clmgmtLicenseStopOnFailure`
 - i. `clmgmtLicenseAcceptEULA`
 - j. `clmgmtLicenseAction`

`clmgmtLicenseActionEntPhysicalIndex` need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

`clmgmtLicenseStore` need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of `clmgmtLicenseStore`

is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword

g.
clmgtLicenseBackupFile
h. clmgtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgtLicenseActionTransferProtocol
- b. clmgtLicenseServerAddressType
- c. clmgtLicenseServerAddress
- d. clmgtLicenseServerUsername
- e. clmgtLicenseServerPassword
- f. clmgtLicenseFile
- g. clmgtLicenseEULAFile
- h. clmgtLicenseAction

For any action, if clmgtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgtLicenseServerAddressType
- b. clmgtLicenseServerAddress
- c. clmgtLicenseServerUsername
- d. clmgtLicenseServerPassword

Entry can be deleted

except when clmgtLicenseAction is set
to pending(2). All entries are volatile and are cleared
on agent reset.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

```
leaf clmgtLicenseActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
    "This object uniquely identifies a row in  
    clmgtLicenseActionTable. The management application should choose  
    this value by reading clmgtNextFreeLicenseActionIndex  
    while creating an entry in this table. If an entry already  
    exists with this index, the creation of the entry will not  
    continue and error will be returned. The management application  
    should read the value of clmgtNextFreeLicenseActionIndex  
    again and retry with the new value for this object.";  
  smiv2:max-access "not-accessible";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";  
}
```

```
leaf clmgtLicenseActionEntPhysicalIndex
```

```

{
    type entity-mib:PhysicalIndexOrZero;
    description
        "This object represents the entPhysicalIndex of the device
        where the action is being executed. This object is mainly
        used in devices where one device is acting as a master and
        rest of the devices as slaves. The master device is
        responsible for SNMP communication with the management
        application. Examples include stackable switches, devices
        with route processor and line card configuration. If this
        object is not set, the license action will be executed on
        the master device. Note: This object need not be set if
        there is a stand alone device";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}

leaf clmgmtLicenseActionTransferProtocol {
    type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
    description
        "This object represents the transfer protocol to be used
        when copying files as specified in the following objects.
        1. clmgmtLicenseFile
        2. clmgmtLicensePermissionTicketFile
        3. clmgmtLicenseRehostTicketFile
        4. clmgmtLicenseBackupFile

        Note: This object need not be set if the all the files
        required for the action are in device's local file system.";
    smiv2:defval "none";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}

leaf clmgmtLicenseServerAddressType {
    type inet-address:InetAddressType;
    description
        "This object indicates the transport type of the
        address contained in clmgmtLicenseServerAddress object.
        This must be set when clmgmtLicenseActionTransferProtocol
        is not none(1) or local(2).";
    smiv2:defval
"unknown";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.4";
}

```



```
leaf clmgmtLicenseServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the ip address of the server from
    which the files must be read or written to if
    clmgmtLicenseActionTransferProtocol is not none(1) or
    local(2).
```

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

```
    The format of this address depends on the value of the
    clmgmtLicenseServerAddressType object";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}
```

```
leaf clmgmtLicenseServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the
remote user name for accessing
    files via ftp, rcp, sftp or scp protocols. This object must
    be set when the clmgmtLicenseActionTransferProtocol is
    ftp(4), rcp(5), scp(7) or sftp(8). If
    clmgmtLicenseActionTransferProtocol is rcp(5), the remote
    username is sent as the server username in an rcp command
    request sent by the system to a remote rcp server.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";
}
```

```
leaf clmgmtLicenseServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the password used by ftp, sftp or
    scp for copying a file to/from an ftp/sftp/scp server.
    This object must be set when the
    clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7)
    or sftp(8). Reading it returns
a zero-length string for
    security reasons.";
```

```

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";
}

```

```

leaf clmgmtLicenseFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the location of the license file
    on the server identified by clmgmtLicenseServerAddress. This
    object MUST be set to a valid value before or concurrently
    with setting the value of the clmgmtLicenseAction object to
    install(2). For other operations, the value of this
    object is not considered, it is irrelevant.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
}

```

```

leaf clmgmtLicenseStore {
  type uint32;
  description
    "This object represents the clmgmtLicenseStoreIndex
of the
    license store to use within the device. The license store
    can be a local disk or flash. A device can have more than
    one license stores. If this object is not set, the license
    will be stored in the default license store as exposed by
    clmgmtDefaultLicenseStore object.";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.9";
}

```

```

leaf clmgmtLicenseActionLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndexOrZero;
  description
    "This object indicates the the license index of the license
    that is the subject of this action. This is used for
    identifying a license for performing actions specific to
    that license. This object need to be set only if
    clmgmtLicenseAction is set to clear(4). The value of this
    object is same as the clmgmtLicenseIndex
object in
    clmgmtLicenseInfoEntry for license that is subject of this
    action.";

```

```

smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}

```

```

leaf clmgmtLicensePermissionTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file name of the permission
    ticket. This object need to be set only if
    clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions. The permission
    ticket is obtained from Cisco licensing portal to revoke
    a license. The management application must set this object
    to valid value before invoking the action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}

```

```

leaf clmgmtLicenseRehostTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where the rehost ticket
    generated by the device need to be exported to. The rehost
    ticket is generated as a result of processPermissionTicket
    and regenerateLastRehostTicket actions. After generating
    the rehost ticket, the device exports the rehost ticket
    contents to this file. This object need to be set only
    if clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}

```

```

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates

```

the file where all the licenses in

the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object to valid value before invoking action.";

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";  
}
```

leaf clmgmtLicenseStopOnFailure {

type boolean;

description

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action.";

```
smiv2:defval "false";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";  
}
```

leaf clmgmtLicenseAction {

type enumeration {

enum "noOp" {

value "1";

}

enum "install" {

value "2";

}

enum "clear" {

value "3";

}

enum "processPermissionTicket" {

value "4";

}

enum "regenerateLastRehostTicket" {

value "5";

}

enum "backup" {

value "6";

}

enum "generateEULA" {

value "7";

}

}

description

"This object indicates the the command/action to be executed.

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.
processPermissionTicket(4)	Processes thee permission ticket and generates and exports rehost ticket.
regenerateLastRehostTicket(5)	Generates and exports the last generated rehost ticket.
backup(6)	Backs up all the licenses installed currently onto a backup store.
generateEULA(7)	Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file.";
smiv2:defval "noOp";	
smiv2:max-access "read-write";	
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";	
}	
leaf clmgmtLicenseActionState {	
type cisco-license-mgmt-mib:ClmgmtLicenseActionState;	
description	
"This object indicates the state of this license action.";	
smiv2:max-access "read-only";	
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";	
}	
leaf clmgmtLicenseJobQPosition {	
type uint32;	
description	
"This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By	

reading this object, the management application can make intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to

defer its license back up action to a later time. This

object will return a value of 0 if the action is not in pending(2) state.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";

}

leaf clmgmtLicenseActionFailCause {

type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;

description

"This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6).";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";

}

leaf clmgmtLicenseActionStorageType {

type snmpv2-tc:StorageType;

description

"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row.";

smiv2:defval "volatile";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";

}

leaf clmgmtLicenseActionRowStatus {

type snmpv2-tc:RowStatus;

description

"This object indicates the the status of this table entry.

Once the entry status is set to active(1), the associated

entry cannot be modified until the action completes

(clmgmtLicenseConfigCommandStatus is set to a value

other than inProgress(3)). Once the action completes

the only operation possible after this is to delete

the row. It is recommended that the management application

should delete entries in this table after reading

the result. In order to prevent old entries from

clogging the table, entries will be aged out, but an

entry will never be deleted within 5 minutes of

```

        completion";

smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20";
}

leaf clmgmtLicenseAcceptEULA {
    type boolean;
    description
        "This object indicates whether the End User License Agreement
        needed for installing the licenses is accepted.

        true(1) - EULA is read and accepted
        false(2) - EULA is not accepted

        Management application should set this object to true(1) when
        installing licenses that need EULA acceptance.";
    smiv2:defval "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
}

leaf clmgmtLicenseEULAFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
        "This object indicates the file where all the End User License
        Agreements (EULAs) need to be exported to. This object need to
        be set only if clmgmtLicenseAction is set to generateEULA(7) and
        the management application must set the value of this object to
        valid value before invoking action.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";
}
}

container clmgmtLicenseActionResultTable {
    description
        "This table contains results of license action if the
        license action involves multiple licenses. Entries in this
        table are not created for actions where there is
        only license that is subject of the action. For
        example, if there are 3 licenses in a license file
        when executing license install action, 3 entries will
        be created in this table, one for each license.";

```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";
```

```
list clmgmtLicenseActionResultEntry {  
  key "clmgmtLicenseActionIndex clmgmtLicenseNumber";  
  description  
    "An entry in clmgmtLicenseActionResultTable. Each entry  
    contains result of the action for a single license.  
    These entries are created immediately after action  
    execution when the action involves multiple licenses.  
    These entries get automatically deleted when the  
    corresponding entry in clmgmtLicenseActionTable  
    is deleted.";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";
```

```
leaf clmgmtLicenseActionIndex {  
  type leafref {  
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-  
mib:clmgmtLicenseActionTable/cisco-license-mgmt-mib:clmgmtLicenseActionEntry/cisco-license-mgmt-  
mib:clmgmtLicenseActionIndex";  
  }  
}
```

```
leaf clmgmtLicenseNumber {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
    "This object indicates the sequence number of this license  
    in the list of licenses on which the action  
is executed.
```

```
    For example, if there are 3 licenses in a license file  
    when executing license install action, this object will  
    have values 1, 2 and 3 respectively as ordered in the  
    license file.";
```

```
smiv2:max-access "not-accessible";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";  
}
```

```
leaf clmgmtLicenseIndivActionState {  
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;  
  description  
    "This object indicates the state of action on this  
    individual license.";
```

```
smiv2:max-access "read-only";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.2";  
}
```

```
leaf clmgmtLicenseIndivActionFailCause {
```



```

type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
description
    "This object indicates the reason for action failure on this
    individual license";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.3";
}
}
}

container clmgmtLicenseStoreInfoTable {
description
    "This table contains information about all the license
    stores allocated on the device.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";

list clmgmtLicenseStoreInfoEntry {
key "entPhysicalIndex clmgmtLicenseStoreIndex";
description
    "An entry in clmgmtLicenseStoreInfoTable. Each entry
    contains information about a license store allocated
    on the device";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1";

leaf entPhysicalIndex {
type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
}
}

leaf clmgmtLicenseStoreIndex {
type uint32 {
    range "1..4294967295";
}
description
    "This object uniquely identifies a license store within
    the device.";
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
}

leaf clmgmtLicenseStoreName {
type snmp-framework:SnmpAdminString {
    length "0..255";
}
description
    "This object indicates the name of the license store

```

```

        within the device. It is a file in device's local file
        system i.e., either on a local disk or flash or some
        other storage media. For example, the value of this
        object can be 'disk1:lic_store_1.txt' or
        'flash:lic_store_2.txt';
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
    }

    leaf clmgmtLicenseStoreTotalSize {
        type uint32;
        units "bytes";
        description
            "This object indicates the total number of bytes that are
            allocated to the license store.";
        smiv2:max-access "read-only";
        smiv2:oid
"1.3.6.1.4.1.9.9.543.1.2.1.1.3";
    }

    leaf clmgmtLicenseStoreSizeRemaining {
        type uint32;
        units "bytes";
        description
            "This object indicates the number of bytes still remaining
            to be used for new license installations in the license
            store.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
    }
}

container clmgmtLicenseDeviceInfoTable {
    description
        "This table contains objects that provide licensing related
        information at the device level. Entries will exist
        only for entities that support licensing. For example,
        if it is a stand alone device and supports licensing,
        then there will be only one entry in this table. If
        it is stackable switch then there will be multiple
        entries with one entry for each device in the stack.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";

    list
    clmgmtLicenseDeviceInfoEntry {
        key "entPhysicalIndex";
        description

```

```

"An entry in clmgmtLicenseDeviceInfoTable. Each entry
contains device level licensing information for a device.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtDefaultLicenseStore {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object indicates the clmgmtLicenseStoreIndex of
    default store in the device. There will be only one
    default license store per device. If no license store
    is specified during license install, this default license
    store will be used.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
}
}

container clmgmtLicenseInfoTable {
  description
    "This table contains information about all the licenses
    installed on the device.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

  list clmgmtLicenseInfoEntry {
    key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
    description
      "An entry in clmgmtLicenseInfoTable. Each entry contains
      information about a license installed on the device. This
      entry gets created when a license is installed successfully.
      Management application can not create these entries directly, but
      will do so indirectly by executing license install action.
      Some of these entries may already exist that correspond to
      demo licenses even before management application installs any
      licenses.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

    leaf entPhysicalIndex {
      type leafref {

```

```

    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object represents the license store that is used for
    storing this license. This object will have the same value
    as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
    of the license store used.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
}

```

```

leaf clmgmtLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
  description
    "This object uniquely identifies a license within
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
}

```

```

leaf clmgmtLicenseFeatureName {
  type snmp-framework:SnmpAdminString
{
  length "0..128";
}
  description
    "This object indicates the name of the feature that is
    using or can use this license. A license can be used by
    only one feature. Examples of feature name are: 'IPBASE',
    'ADVIPSERVICE'.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

```

```

leaf clmgmtLicenseFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object indicates the version of the feature that is
    using or can use this license. Examples of feature version

```

```

are: '1.0', '2.0';
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

```

```

leaf clmgmtLicenseType {
  type enumeration {
    enum "demo" {
      value "1";
    }
    enum "extension"
  {
    value "2";
  }
    enum "gracePeriod" {
      value "3";
    }
    enum "permanent" {
      value "4";
    }
    enum "paidSubscription" {
      value "5";
    }
    enum "evaluationSubscription" {
      value "6";
    }
    enum "extensionSubscription" {
      value "7";
    }
    enum "evalRightToUse" {
      value "8";
    }
    enum "rightToUse" {
      value "9";
    }
    enum "permanentRightToUse" {
      value "10";
    }
  }
  description
    "This object identifies type of license. Licenses may have
    validity period defined in terms of time duration that the
    license is valid for or it may be defined in terms of actual
    calendar dates. Subscription licenses are licenses that have
    validity period
    defined in terms of calendar dates.

```

demo(1) - demo(evaluation license) license.

extension(2) - Extension(expiring) license.
gracePeriod(3) - Grace period license.
permanent(4) - permanent license, the license has no
expiry date.

paidSubscription(5) - Paid subscription licenses are the
licenses

which are purchased by customers. These
licenses have a start date and end date
associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are
the trial licenses. These licenses
are not locked and it can be obtained
only once for an UDI. They are valid

based on calendar days. These licenses
have a start date and an end date
associated with them and are issued
once per UDI.

extensionSubscription(7)- Extension subscription licenses are
similar to evaluation subscription
licenses but these licenses are issued
based on customer request. There are
no restrictions on the number of
licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU)
license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured
and is valid for the lifetime of

the product.

This is a Right To Use license which is not in
evaluation mode for a limited time.";

```
smiv2:max-access "read-only";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";  
}
```

```
leaf clmgmtLicenseCounted {  
  type boolean;  
  description  
    "This object indicates whether the license is counted  
    license.  
    true(1) - counted license  
    false(2) - uncounted license";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";  
}
```

```
leaf clmgmtLicenseValidityPeriod {
```

```

    type uint32;
    units "seconds";
    description
        "This object indicates the time period the license is valid for.
        This object is applicable only if clmgmtLicenseType is demo(1),
        or extension(2) or gracePeriod(3) or evalRightToUse(8). The
        object will return
0 for other license types.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}

```

```

leaf clmgmtLicenseValidityPeriodRemaining {
    type uint32;
    units "seconds";
    description
        "This object indicates the time period remaining before the
        license expires or transitions to rightToUse(9) license. This
        object is applicable only if clmgmtLicenseType is demo(1), or
        extension(2) or gracePeriod(3) or evalRightToUse(8). The object
        will contain 0 for other license types.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8";
}

```

```

leaf clmgmtLicenseExpiredPeriod {
    type uint32;
    units "seconds";
    description
        "This object indicates the elapsed time period since the license
        expired. This object is applicable only if clmgmtLicenseType
        is demo(1),
or extension(2) or gracePeriod(3). Also, this
        value of this object will be valid only after the license
        expires. The object will return 0 for other license types
        or before the license expiry.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}

```

```

leaf clmgmtLicenseMaxUsageCount {
    type uint32;
    description
        "This object indicates the maximum number of entities that
        can use this license. This object is applicable only if
        clmgmtLicenseCounted is true(1). The entity that is being
        counted can be anything and it depends on the licensable
        feature.";
}

```

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

leaf clmgmtLicenseUsageCountRemaining {
    type uint32;
    description
        "This object indicates the number of entities that can
        still
use this license. This object is applicable only
        if clmgmtLicenseCounted is true(1).";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}

leaf clmgmtLicenseEULAStatus {
    type boolean;
    description
        "This object indicates whether the user accepted
        End User License Agreement for this license.

        true(1) - EULA accpeted
        false(2) - EULA not accepted";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}

leaf clmgmtLicenseComments {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
        "This object represents the user modifiable comments
        about the license. This object is initially populated
        with comments from the license file.";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

leaf clmgmtLicenseStatus {
    type enumeration {
        enum "inactive" {
            value "1";
        }
        enum "notInUse" {
            value "2";
        }
        enum "inUse" {

```



```

    value "3";
  }
  enum "expiredInUse" {
    value "4";
  }
  enum "expiredNotInUse" {
    value "5";
  }
  enum "usageCountConsumed" {
    value "6";
  }
}
description
"This object represents status of the license.

```

```

inactive(1)      - license is installed, but
                  not active.
notInUse(2)      - license is installed and
                  available for use.
inUse(3)         - the license is being used (by
                  a feature).
expiredInUse(4)
- license is expired but still
                  being held by the feature.
expiredNotInUse(5) - license is expired and not being
                  held by any feature.
usageCountConsumed(6) - number of entities using this
                  licenses has reached the allowed
                  limit, no new entities are allowed
                  to use this license.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
}

```

```

leaf clmgmtLicenseStartDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the start date for a subscription
    license. It is optional for subscription linceses to have a
    start date associated with them, they may only have an end
    date associated with them. This object may be applicable only

```

```

when clmgmtLicenseType is paidSubscription(5),
  evaluationSubscription(6) or extensionSubscription (7).
  The object will contain an octet string of length 0 when it is
  not applicable.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";

```

```

}

leaf clmgmtLicenseEndDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the end date for a subscription license.
    This object is applicable only when clmgmtLicenseType is
    paidSubscription(5), evaluationSubscription(6) or
    extensionSubscription (7). The object will contain an octet
    string of length 0 when it is not applicable.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
}

leaf clmgmtLicensePeriodUsed {
  type uint32;
  units "seconds";
  description
    "This
object indicates the time period used for the
    Right to use (RTU) licenses. This object is applicable for all
    RTU licenses.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";
}
}
}

container clmgmtLicensableFeatureTable {
  description
    "This table contains list of licensable features in the
    image. All the licensable features will have an entry each
    in this table irrespective of whether they are using any
    licenses currently. Entries in this table are created by
    the agent one for each licensable feature in the image.
    These entries remain in the table permanently and can not
    be deleted. Management application can not create or delete
    entries from this table.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

  list clmgmtLicensableFeatureEntry {
    key "entPhysicalIndex clmgmtFeatureIndex";
    description
      "An entry
in clmgmtLicensableFeatureTable. Each entry represents
      a licensable feature.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";
  }
}

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtFeatureIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a licensable feature in
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
}

```

```

leaf clmgmtFeatureName {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE'";
  smiv2:max-access
"read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
}

```

```

leaf clmgmtFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..32";
  }
  description
    "This object indicates the version of the licensable
    feature in the device. Examples of feature versions
    are: '1.0' or '2.0'";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";
}

```

```

leaf clmgmtFeatureValidityPeriodRemaining {
  type uint32;
  units "seconds";
  description
    "This object indicates the time period remaining before

```

the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}
```

```
leaf clmgmtFeatureWhatIsCounted {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object represents the entity that is being counted
    by this feature. Examples of entities are IP Phones, number
    of sessions etc. This object is only applicable for
    features that use counting licenses. For other features,
    this object will return empty string.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";
}
```

```
leaf clmgmtFeatureStartDate {

type snmpv2-tc:DateAndTime;
  description
    "This object indicates the license start date of the feature.
    This object is applicable if at least one of the licenses used
    for this feature has a valid start date. The start date will
    be the earliest of the valid start dates of all the licenses
    used for this feature. If none of the licenses used for this
    feature have a valid start date then this object will contain an
    octet string of length 0.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}
```

```
leaf clmgmtFeatureEndDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the license end date of the feature.
```

This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}

leaf clmgmtFeaturePeriodUsed {
  type uint32;
  units "seconds";
  description
    "This object indicates the license period used for the feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
}
}
}

```

```

container clmgmtDevCredExportActionTable {
  description
    "A table for triggering device credentials export action.
    Management application must create this entry to trigger the
    export of device credentials from the device to a file.

```

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

```

```

list clmgmtDevCredExportActionEntry {
  key "clmgmtDevCredExportActionIndex";
  description
    "An entry for each device credential export action that
    is being executed or was executed recently. The management
    application triggers the export by creating an entry in this
    table. This can be done in the following 2 methods

```

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values

are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgtDevCredExportActionStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgtDevCredExportActionStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgtDevCredExportActionStatus` to `destroy(6)` when `clmgtDevCredCommandState` is `pending(2)`.

The status of action execution can be known by querying

`clmgtDevCredCommandState`. If the action is still in `pending(2)` or `inProgress(3)`, the management application need to check back again after few seconds. Once the action completes and if status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgtDevCredCommandFailCause`.

Entry can be deleted except when `clmgtLicenseAction` is set to `inProgress(3)`. All entries in this table are volatile and are cleared on agent reset.";

`smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";`

```
leaf clmgtDevCredExportActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a row in
    clmgtDevCredExportActionTable. The management application
    chooses this value by reading
    clmgtNextFreeDevCredExportActionIndex while creating an
    entry in this table.
```

If an entry already exists with this

index, the creation of the entry will not continue and error will be returned. The management application should read the value of `clmgtNextFreeDevCredExportActionIndex` again and retry with the new value for this object.";

`smiv2:max-access "not-accessible";`

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}

leaf clmgmtDevCredEntPhysicalIndex {
  type entity-mib:PhysicalIndexOrZero;
  description
    "This object represents the entPhysicalIndex of the device
    for which the device credentials are being retrieved. This
    object is mainly used in devices where one device is acting
    as a master and rest of the devices as slaves. The master
    device is responsible for SNMP communication with the
    manager. Examples include stackable switches, devices with
    router processor and line cards.

    Note: This object need not be set if it is a stand alone
    device";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}

leaf clmgmtDevCredTransferProtocol {
  type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
  description
    "This object indicates the transfer protocol to be used when
    copying files as specified in the following objects.
    1. clmgmtDevCredExportFile
    .";
  smiv2:defval "none";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}

leaf clmgmtDevCredServerAddressType {
  type inet-address:InetAddressType;
  description
    "This object indicates the transport type of the
    address contained in clmgmtDevCredServerAddress object.
    This must be set when clmgmtDevCredTransferProtocol
    is not none(1) or local(2).";
  smiv2:defval "unknown";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description

```

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

The format of this address depends on the value of the clmgmtDevCredServerAddressType object";

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";  
}
```

```
leaf clmgmtDevCredServerUsername {  
  type snmp-framework:SnmpAdminString {  
    length "0..96";  
  }  
}
```

description

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server.";

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";  
}
```

```
leaf clmgmtDevCredServerPassword {  
  type snmp-framework:SnmpAdminString {  
    length "0..96";  
  }  
}
```

description

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons.";

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";  
}
```



```

leaf clmgmtDevCredExportFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents file where device credentials needs
    to be exported to.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}

```

```

leaf clmgmtDevCredCommand {
  type enumeration {
    enum "noOp" {
      value "1";
    }
    enum "getDeviceCredentials" {
      value "2";
    }
  }
  description
    "This object indicates the the command to be executed.

```

Command	Remarks

noOp(1)	No operation will be performed.

```

    getDeviceCredentials(2)    Exports device credentials";
  smiv2:defval "noOp";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";
}

```

```

leaf clmgmtDevCredCommandState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
  description
    "This object indicates the state of the action that is
    executed as a result of setting clmgmtDevCredRowStatus
    to active(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

```

```

leaf clmgmtDevCredCommandFailCause {
  type enumeration {
    enum "none" {

```

```

        value "1";
    }
    enum "unknownError" {
        value "2";
    }
    enum "transferProtocolNotSupported"
{
        value "3";
    }
    enum "fileServerNotReachable" {
        value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
        value "5";
    }
    enum "invalidFile" {
        value "6";
    }
}
description
"This object indicates the the reason for device
credentials export operation failure.

```

The value of this object is valid only when
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.
If the action is completed and the
action is successful, then also
none(1) is returned to indicate that
there are no errors.

unknownError(2) - reason for failure is unknown,
operation failed, no

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
valid

invalidFile(6) - The target file specified is not valid.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";

}

leaf clmgmtDevCredStorageType {

type snmpv2-tc:StorageType;

description

```

    "This object indicates the storage type for this conceptual
    row. Conceptual rows having the value 'permanent' need not
    allow write-access to any columnar objects in the row.";
    smiv2:defval "volatile";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";
}

```

```

leaf clmgmtDevCredRowStatus {
    type snmpv2-tc:RowStatus;
    description
        "This object indicates the the status of this table entry.
        Once the entry status is set to active(1), the associated
        entry cannot be modified until the action completes
        (clmgmtDevCredCommandStatus is set to a value
        other than inProgress(3)). Once the action completes
        the only operation possible after this is to delete
        the row.

        clmgmtDevCredExportFile is a mandatory object to be
        set when creating this entry.";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
}
}
}
}

notification clmgmtLicenseExpired {
    description
        "This notification is sent, when a feature license
        expires. This notification will be sent continuously
        every week even after the expiry to alert the
        management
        application.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
                mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

notification clmgmtLicenseExpiryWarning {
  description
    "This notification is sent when a license is about to
    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks

```

```

    ahead, third notification
when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

container object-1 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureName {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
        }
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }
}

```

```

    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureValidityPeriodRemaining {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
      }
    }
  }

  notification clmgmtLicenseUsageCountExceeded {
    description
      "This notification is sent when clmgmtLicenseUsageCountRemaining
      has reached clmgmtLicenseMaxUsageCount for a counting license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";

    container object-1 {

      leaf entPhysicalIndex {

```

```

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref
  {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseMaxUsageCount {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-

```



```

mib:clmgmtLicenseMaxUsageCount";
    }
  }
}

```

container object-4 {

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureWhatIsCounted {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
      }
    }
  }
}

```

container object-5 {

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
  }
}

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseUsageCountAboutToExceed
  {
    description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached 80% of clmgmtLicenseMaxUsageCount for a counting
    license. This is a warning notification to the management
    application that very soon the maximum count will be reached
    and after that the device will not allow new entities to
    make use of this license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";

    container object-1 {

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf clmgmtLicenseStoreUsed {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
      }

      leaf clmgmtLicenseIndex {
        type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }
}

```

```

container object-2 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }
}

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
  }
}

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
  }
}

```

```

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }
}

```

```

    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseMaxUsageCount {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
        }
    }
}

container object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseUsageCountRemaining {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
  }
}

container object-5 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref
  {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

  leaf clmgmtFeatureWhatIsCounted {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
    }
  }
}

```

```

}

container object-6 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
        }
    }
}

notification clmgmtLicenseInstalled {
    description
        "This notification is sent when a license is installed
        successfully.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

```

```

mib:entPhysicalIndex";

    }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureName {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
        }
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type
    leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseType {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
  }
}

```



```

    }
}

container
object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
        }
    }
}

notification clmgmtLicenseCleared {
    description
        "This notification is sent when a license is cleared
        successfully.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";

    container object-1 {

        leaf entPhysicalIndex {

```

```

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseType {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
  }
}

```

```

    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path
"/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseComments {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
  }
}

notification clmgmtLicenseRevoked {
  description
    "This notification is sent when a license is revoked
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";

  container object-1 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
  }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
  }

```

```

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }
}

```

```

container object-2 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    leaf clmgmtLicenseStoreUsed {

      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
  }

```

```

    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseType {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-

```

```

mib:clmgmtLicenseType";
    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseComments {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
  }
}

notification clmgmtLicenseEULAAccepted {
  description
    "This
notification is sent when a user accepts End User
License Agreement (EULA) for a license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

  container object-1 {

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

```



```

    }
  }
}

```

```

notification clmgmtLicenseNotEnforced {
  description
    "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically
    to indicate that there is no
    license installed for this feature and it needs to
    be done as soon as possible.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

```

```

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }

```

```

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }
}

```

```

  container object-2 {

    leaf
entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

```

```

mib:entPhysicalIndex";
    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}
}

notification clmgmtLicenseSubscriptionExpiryWarning {
    description
        "This notification is sent when a subscription license of a
        feature is about to expire. This notification will be sent as
        per the following
    schedule:
        Once a week for the last eight weeks
        Once a day for the last week
        Once a hour for the last day";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }
    }
}

```

```

    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf
entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf

```

```

clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureEndDate {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
  }
}

notification clmgmtLicenseSubscriptionExtExpiryWarning {
  description
  "This notification is sent when the subscription license end
  date of a feature is reached but extension period is left. This
  notification will be sent once a day after the license end date
  is reached.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }
}

```

```

    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {

      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }
}

```

```

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }
}

```

```

notification clmgmtLicenseSubscriptionExpired {
  description
    "This notification will be sent after a subscription license
    of a feature completely expires. It will be sent once a day
    after the license has completely expired";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";
}

```

```

container object-1 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

```

```

container object-2 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

```

```

mib:entPhysicalIndex";
    }
}

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureEndDate {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
        }
    }
}

```

```

notification clmgmtLicenseEvalRTUTransitionWarning {
  description
    "This notification is sent when Evaluation to Right to use (RTU)
    license transition is about to happen. The first notification
    will be sent 10 days before the transition and second
    notification will be sent 5 days before the transition.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```



```

mib:clmgmtFeatureIndex";
    }
}

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

    container object-3 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }

        leaf clmgmtFeatureValidityPeriodRemaining {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
            }
        }
    }

    notification clmgmtLicenseEvalRTUTransition {
        description
            "This notification is sent, when a feature license transitions
            from a evaluation to a
            Right to use (RTU) license.";
        smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

        container object-1 {

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

```

```

    }
  }
}

smiv2:alias "ciscoLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.543";
}

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

smiv2:alias "ciscoLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1";
}

smiv2:alias "clmgmtLicenseConfiguration" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
}

smiv2:alias "clmgmtLicenseInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
}

smiv2:alias "clmgmtLicenseDeviceInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

smiv2:alias "clmgmtLicenseNotifObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
}

smiv2:alias "ciscoLicenseMgmtMIBConform" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2";
}

smiv2:alias "ciscoLicenseMgmtCompliances" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
}

smiv2:alias "ciscoLicenseMgmtGroups" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
}

}
// Copyright 2015 Google Inc.
//
// Licensed under the Apache License, Version 2.0 (the "License");

```

```
// you may not use this file except in compliance with the License.
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
-- *****
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****
```

CISCO-IMAGE-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
OBJECT-TYPE,
MODULE-IDENTITY,
Unsigned32,
NOTIFICATION-TYPE
    FROM SNMPv2-SMI
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP
    FROM SNMPv2-CONF
TEXTUAL-CONVENTION,
TruthValue
    FROM SNMPv2-TC
SnmAdminString
    FROM SNMP-FRAMEWORK-MIB
entPhysicalIndex
    FROM ENTITY-MIB
ciscoMgmt
    FROM CISCO-SMI;
```

ciscoImageLicenseMgmtMIB MODULE-IDENTITY

```
LAST-UPDATED "200710160000Z"
ORGANIZATION "Cisco Systems Inc."
CONTACT-INFO
```

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive
San Jose, CA 95134
USA
Tel: +1 800 553 -NETS
E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing the running image level of a Cisco device. Cisco's licensing mechanism provides flexibility to run a device on a chosen image level. This mechanism is referred to as image level licensing. Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for

the configured image

level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the base advsecurity license.
- Customer upgrades to advservicesk9 license.
- The next boot level is set to advservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advservicesk9 features.

Scenario 2:

- Customer selects advservicesk9 based image.
- Manufacturing installs advservices and advsecurity license on the device.
- This device will run all features that are part of the base advservices license.

- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."

REVISION "200710160000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 2 }

BootImageLevel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define the image level.

If the device is running at advipservices image level, then the boot image level will

be 'advipservices'."

SYNTAX OCTET STRING (SIZE (0..255))

LicenseNameList ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define
the list of license names.

If multiple licenses

are present then this string will contain all
the licenses separated by the ',' character.

If the license required to run a device at
advipservices image level is advipservices and
advsecurity, then the license name list will be
'advipservices,advsecurity'."

SYNTAX OCTET STRING (SIZE (0..255))

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that contains the configuration information of
current and next boot image level. This table contains
entries for each software module running in an image
loaded in the device. The software module is identified by
cilmModuleName and the device is identified by
entPhysicalIndex."

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table for each module containing the
list of objects that define the configuration of next
boot level. The following information is specified by
the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.

- License store index for the next boot license.
- License index of the next boot license."

```

INDEX      {
            entPhysicalIndex,
            cilmModuleName
        }
 ::= { cilmBootImageLevelTable 1 }

```

```

CilmBootImageLevelEntry ::= SEQUENCE {
    cilmModuleName          SnmpAdminString,
    cilmCurrentImageLevel
        BootImageLevel,
    cilmConfiguredBootImageLevel BootImageLevel,
    cilmNextBootImageLevel   BootImageLevel,
    cilmCurrentLicenseStoreIndex Unsigned32,
    cilmCurrentLicenseIndex   Unsigned32,
    cilmNextBootLicenseStoreIndex Unsigned32,
    cilmNextBootLicenseIndex   Unsigned32
}

```

cilmModuleName OBJECT-TYPE

```

SYNTAX      SnmpAdminString
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
    "This object is used as one of the two indices in
    cilmBootImageLevelTable. This object indicates the module
    name of the software package. There can be multiple
    modules in an image performing specific functionality.
    For example, in a wireless image there can be two modules
    - a base image module and a wireless module."
 ::= { cilmBootImageLevelEntry 1 }

```

cilmCurrentImageLevel OBJECT-TYPE

```

SYNTAX      BootImageLevel
MAX-ACCESS   read-only
STATUS
    current
DESCRIPTION
    "This object indicates the current image level that
    the module is running."
 ::= { cilmBootImageLevelEntry 2 }

```

cilmConfiguredBootImageLevel OBJECT-TYPE

```

SYNTAX      BootImageLevel
MAX-ACCESS   read-write
STATUS       current
DESCRIPTION

```


"This object indicates the configured image level of the module for the next boot.

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by `cilmNextBootImageLevel` which is determined based on the license availability."

::= { `cilmBootImageLevelEntry` 3 }

`cilmNextBootImageLevel` OBJECT-TYPE

SYNTAX `BootImageLevel`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot

image level is determined based

on the availability of required license."

::= { `cilmBootImageLevelEntry` 4 }

`cilmCurrentLicenseStoreIndex` OBJECT-TYPE

SYNTAX `Unsigned32`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the license store index where the currently used license is stored. This object has the same value as `clmgmtLicenseStoreIndex` object and uniquely identifies an entry in `clmgmtLicenseStoreInfoTable` in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed and device is running base image."

::= { `cilmBootImageLevelEntry` 5 }

`cilmCurrentLicenseIndex` OBJECT-TYPE

SYNTAX `Unsigned32`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as `clmgmtLicenseIndex`

and

uniquely identifies an entry in `clmgmtLicenseInfoTable` in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is

installed and device is running base image."
::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This object indicates the license index of the next boot license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 8 }

cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each."

::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license."

INDEX {
entPhysicalIndex,
cilmModuleName,
cilmImageLicenseMapIndex
}

::= { cilmImageLevelToLicenseMapTable 1 }

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {

cilmImageLicenseMapIndex Unsigned32,
cilmImageLicenseImageLevel BootImageLevel,
cilmImageLicenseName LicenseNameList,
cilmImageLicensePriority Unsigned32

}

cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a running
index used to identify an entry
of this table."

::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the image level at which
a module can be run. A module can be run at
different image levels. An entry will be created
in this table for every module and image level
combination."

::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the list of licenses needed to be installed for the module to run at the image level mentioned by cilmImageLicenseImageLevel object of this entry."

::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the priority of the image level mentioned by cilmImageLicenseImageLevel object of this entry. The image level with the highest priority license will be considered as the default level in the absence of next boot image level configuration. For example if there are three licenses l1, l2 and l3 in the ascending order of priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses."

::= { cilmImageLevelToLicenseMapEntry 4 }

-- Global Objects

cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object when set to TRUE means that the user has accepted the END USER LICENSE AGREEMENT. This object has to be set to TRUE by the user before using the objects in the cilmBootImageLevelTable to configure the license."

DEFVAL { false }

::= { ciscoImageLicenseMgmtMIBObjects 3 }

-- Notification control

cilmNotifCntl OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Specify whether or not a notification should be generated on the detection of change in next boot image level.

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered."

REFERENCE

"See also RFC3413 for explanation that notifications are under the ultimate control of the MIB module in this document."

DEFVAL { false }

::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE

OBJECTS {
 cilmCurrentImageLevel,
 cilmConfiguredBootImageLevel
}

STATUS current

DESCRIPTION

"This notification is triggered when next boot image level is changed in the management entity. The current and configured image level are indicated by cilmCurrentImageLevel and cilmConfiguredBootImageLevel objects respectively."

::= { ciscoImageLicenseMgmtMIBNotifs 1 }

-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 2 }

```

cilmModuleCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "Compliance statement for Cisco Image level license mgmt MIB."
    MODULE      -- this module
    MANDATORY-GROUPS {
        cilmAdminGroup,
        cilmNotifGroup
    }

    GROUP      cilmOperGroup
    DESCRIPTION
        "This group is mandatory for all devices where
        multiple license are supported."
    ::= { cilmModuleCompliances 1 }

```

-- Units of Conformance

```

cilmAdminGroup OBJECT-GROUP
    OBJECTS      {
        cilmCurrentImageLevel,
        cilmConfiguredBootImageLevel,
        cilmNextBootImageLevel,
        cilmCurrentLicenseStoreIndex,
        cilmCurrentLicenseIndex,
        cilmNextBootLicenseStoreIndex,
        cilmNextBootLicenseIndex,
        cilmEULAAccepted,
        cilmImageLevelChangedNotif
    }

    STATUS      current
    DESCRIPTION
        "Objects for performing license set operation for setting
        next boot level."
    ::= { cilmModuleGroups 1 }

```

```

cilmOperGroup OBJECT-GROUP
    OBJECTS      {
        cilmImageLicenseImageLevel,
        cilmImageLicenseName,
        cilmImageLicensePriority
    }

    STATUS      current
    DESCRIPTION
        "Objects for getting current image level configuration data."
    ::= { cilmModuleGroups 2 }

```

```

cilmNotifGroup NOTIFICATION-GROUP
    NOTIFICATIONS { cilmBootImageLevelChanged }
    STATUS        current
    DESCRIPTION
        "Objects for getting current image level configuration data."
    ::= { cilmModuleGroups 3 }

END
-- *****
-- CISCO-LICENSE-MGMT-MIB.my: Cisco MIB to manage licenses on
-- Cisco devices
--
-- July 2006, Sunil Gudurvalmiki
--
-- Copyright (c) 2006, 2008, 2011-2012 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

CISCO-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    OBJECT-TYPE,
    MODULE-IDENTITY,
    Unsigned32,
    NOTIFICATION-TYPE
        FROM SNMPv2-SMI
    MODULE-COMPLIANCE,
    OBJECT-GROUP,
    NOTIFICATION-GROUP
        FROM SNMPv2-CONF
    TEXTUAL-CONVENTION,
    TruthValue,
    RowStatus,
    StorageType,
    DateAndTime
        FROM SNMPv2-TC
    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB
    entPhysicalIndex,
    PhysicalIndexOrZero
        FROM ENTITY-MIB
    InetAddressType,
    InetAddress
        FROM INET-ADDRESS-MIB
    ciscoMgmt
        FROM CISCO-SMI;

```

ciscoLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "201204190000Z"

ORGANIZATION "Cisco Systems Inc."

CONTACT-INFO

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing licenses on the system.
The licensing mechanism provides flexibility to
enforce licensing for various features in the system.

The following text introduces different concepts and
terms those are necessary to understand the MIB definition
and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a
device. It comprises of product ID, version ID and serial
number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device
identifiers in the system. For example, the license
can be locked to the UDI value of one of the devices
in the system. Locking a license to an UDI guarantees
that the license will not be moved to a device with a
different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device
identifier. They can be used on other similar devices.

METERED LICENSE:

Metered licenses are valid for limited period of time
and they expire after that. This period is the usage
period of a license and it is not based on real time
clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User

will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal.

These licenses need to be installed using management interfaces on the device. User will have to accept an

EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license.

These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on

the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable

part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

- To install a license, the management application
1. Retrieves device credentials of the device.
 2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
 3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of

the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE

& EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be

- installed
- 2. Specifies the EULA file path where EULA need to be exported to
- 3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:

- o Added RTU license definition to MIB description above.
- o Updated clmgmtLicenseType object to support the following new types of license:
 - evalRightToUse
 - rightToUse
- o Added following objects to clmgmtLicenseInfoTable
 - clmgmtLicensePeriodUsed
- o Added following objects to clmgmtLicensableFeatureTable
 - clmgmtFeaturePeriodUsed
- o Added the following notifications
 - clmgmtLicenseEvalRTUTransitionWarning
 - clmgmtLicenseEvalRTUTransition
- o Added the following conformance groups
 - clmgmtLicenseRTUGroup
 - clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
 - paidSubscription
 - evaluationSubscription
 - extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
 - clmgmtLicenseStartDate
 - clmgmtLicenseEndDate
- o Added following
 - objects to clmgmtLicensableFeatureTable
 - clmgmtFeatureStartDate
 - clmgmtFeatureEndDate
- o Added the following notifications
 - clmgmtLicenseSubscriptionExpiryWarning
 - clmgmtLicenseSubscriptionExtExpiryWarning
 - clmgmtLicenseSubscriptionExpired
- o Added the following conformance groups
 - clmgmtLicenseSubscriptionGroup
 - clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200610030000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation

OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A unique value, for each license in the managed system.

It is not necessary to have values assigned contiguously.

The value for each license must remain constant

at least from one re-initialization of the entity's

network management system to the next re-initialization"

SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is an extension of the ClmgmtLicenseIndex

convention. The latter defines a greater than zero value

used to identify a license in the managed system.

This

extension permits the additional value of zero. The value

zero is object-specific and must therefore be defined as

part of the description of any object which uses this

syntax. Examples of the usage of zero might include

situations where license was not present or unknown."

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The transfer protocol that should be used for copying files when performing license management. When the protocol is set to local(2), local file system (flash or disk) is used. Different agents may support different transfer protocols and the management application is expected to some how determine which protocol is supported and use."

SYNTAX INTEGER {
 none(1),
 local(2),
 tftp(3),
 ftp(4),
 rcp(5),
 http(6),
 scp(7),
 sftp(8)
 }

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

- none(1) - action is not yet scheduled to be executed.
- pending(2) - All the required parameters for the action are set and the action is scheduled to be executed.
- inProgress(3) - action execution has started and is in progress.
- successful(4) - action has completed successfully.
- partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.


```

        failed(6)          - action has failed."
SYNTAX      INTEGER {
        none(1),
        pending(2),
        inProgress(3),
        successful(4),
        partiallySuccessful(5),
        failed(6)
    }

```

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Reason for license action failure. Defines error codes for all the license actions.

```

none(1)          - action execution has not
                  started yet. If the action
                  is
completed and the action
                  is successful, then also
                  none(1) is returned to
                  indicate that there are no
                  errors.

generalFailure(2) - General licensing failure.
                  This will be used for resource
                  unavailability failures.
                  Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not
                                supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
                                valid

invalidLicenseFilePath(6) - The license file path is not
                            accessible.

invalidLicenseFile(7) - Contents of license file are

                        not valid.

invalidLicenseLine(8) - License string in the license
                        file is not valid.

licenseAlreadyExists(9) - Management application is trying
                        to install a license that already
                        exists.

licenseNotValidForDevice(10) - This license is not valid for
                        the device/entPhysicalIndex
                        specified.

invalidLicenseCount(11) - Invalid count for this counted

```

license.

invalidLicensePeriod(12) - Validity period is invalid for this expiring license.

licenseInUse(13) - License file is in use by a feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the license storage.

invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.

invalidPermissionTicket(17) - The permission ticket file contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.

invalidRehostTicket(19) - The rehost ticket file contents are not valid.

invalidLicenseBackupFile(20) - License backup store path is not accessible.

licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible."

SYNTAX INTEGER {

- none(1),
- generalFailure(2),
- transferProtocolNotSupported(3),
- fileServerNotReachable(4),
- unrecognizedEntPhysicalIndex(5),
- invalidLicenseFilePath(6),
- invalidLicenseFile(7),
- invalidLicenseLine(8),
- licenseAlreadyExists(9),
- licenseNotValidForDevice(10),
- invalidLicenseCount(11),
- invalidLicensePeriod(12),
- licenseInUse(13),
- invalidLicenseStore(14),
- licenseStorageFull(15),

```

        invalidPermissionTicketFile(16),
        invalidPermissionTicket(17),
        invalidRehostTicketFile(18),
        invalidRehostTicket(19),
        invalidLicenseBackupFile(20),
        licenseClearInProgress(21),
        invalidLicenseEULAFile(22)
    }

```

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for clmgmtLicenseActionIndex that can be used to create an entry in clmgmtLicenseActionTable. The management application should read this object first and then use this as the value

for clmgmtLicenseActionIndex to avoid collisions when creating entries in clmgmtLicenseActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated."

::= { clmgmtLicenseConfiguration 1 }

-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for invoking license management actions. Management application must create a row

in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of `clmgmtLicenseAction` for more information on what these actions do on the device. Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

```
::= { clmgmtLicenseConfiguration 2 }
```

`clmgmtLicenseActionEntry` OBJECT-TYPE

SYNTAX `ClmgmtLicenseActionEntry`

MAX-ACCESS `not-accessible`

STATUS `current`

DESCRIPTION

"An

entry for each action that is being executed or was executed recently. The management application executes an action by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects are set to valid values, management application triggers

action

execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgmtLicenseActionRowStatus` to `destroy(6)` when `clmgmtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying

clmgtLicenseActionState. If the action is still in pending(2) or in inProgress(3) state, the management application need to check back again after few seconds. Once the action completes and status of the action is failed(6), the reason for failure can be retrieved from clmgtLicenseActionFailCause. If the status of the action is partiallySuccessful(5), results of individual licenses can be queried from clmgtLicenseActionResultTable.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. clmgtLicenseActionTransferProtocol
- b. clmgtLicenseServerAddressType
- c. clmgtLicenseServerAddress
- d. clmgtLicenseServerUsername
- e. clmgtLicenseServerPassword
- f. clmgtLicenseFile
- g. clmgtLicenseStore
- h. clmgtLicenseStopOnFailure
- i. clmgtLicenseAcceptEULA
- j. clmgtLicenseAction

clmgtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of clmgtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgtLicenseActionEntPhysicalIndex
- b. clmgtLicenseActionLicenseIndex
- c. clmgtLicenseStore
- d. clmgtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g. clmgmtLicenseBackupFile
- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername

- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."

INDEX { clmgmtLicenseActionIndex }
 ::= { clmgmtLicenseActionTable 1 }

```
ClmgmtLicenseActionEntry ::= SEQUENCE {
    clmgmtLicenseActionIndex      Unsigned32,
    clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,
    clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,
    clmgmtLicenseServerAddressType InetAddressType,
    clmgmtLicenseServerAddress    InetAddress,
    clmgmtLicenseServerUsername   SnmpAdminString,
    clmgmtLicenseServerPassword   SnmpAdminString,
    clmgmtLicenseFile             SnmpAdminString,
    clmgmtLicenseStore            Unsigned32,
    clmgmtLicenseActionLicenseIndex
ClmgmtLicenseIndexOrZero,
    clmgmtLicensePermissionTicketFile SnmpAdminString,
    clmgmtLicenseRehostTicketFile    SnmpAdminString,
    clmgmtLicenseBackupFile          SnmpAdminString,
    clmgmtLicenseStopOnFailure       TruthValue,
    clmgmtLicenseAction              INTEGER,
    clmgmtLicenseActionState          ClmgmtLicenseActionState,
    clmgmtLicenseJobQPosition         Unsigned32,
    clmgmtLicenseActionFailCause      ClmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType    StorageType,
    clmgmtLicenseActionRowStatus      RowStatus,
    clmgmtLicenseAcceptEULA           TruthValue,
    clmgmtLicenseEULAFile            SnmpAdminString
}
```

clmgmtLicenseActionIndex OBJECT-TYPE
 SYNTAX Unsigned32 (1..4294967295)
 MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex
while creating an entry in this table. If an entry already
exists with this index, the creation of the entry will not
continue and error will be returned. The management application
should read the value of clmgmtNextFreeLicenseActionIndex
again and retry with the new value for this object."

::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device
where the action is being executed. This object is mainly
used in devices where one device is acting as a master and
rest of the devices as slaves. The master device is
responsible for SNMP communication with the management
application. Examples

include stackable switches, devices

with route processor and line card configuration. If this
object is not set, the license action will be executed on
the master device. Note: This object need not be set if
there is a stand alone device"

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the transfer protocol to be used
when copying files as specified in the following objects.

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files
required for the action are in device's local file system."

DEFVAL { none }

::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType

OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object. This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

The format of this address depends on the value of the clmgmtLicenseServerAddressType object"

DEFVAL

{ "" }

::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 6 }

clmgmtLicenseServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from

an ftp/sftp/scp server.

This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 7 }

clmgmtLicenseFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 8 }

clmgmtLicenseStore OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the clmgmtLicenseStoreIndex of the license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex

object in

clmgmtLicenseInfoEntry for license that is subject of this action."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the licenses in the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE

SYNTAX INTEGER {
 noOp(1),
 install(2),
 clear(3),
 processPermissionTicket(4),
 regenerateLastRehostTicket(5),
 backup(6),
 generateEULA(7)
}

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"This object indicates the the command/action to be executed.

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.
processPermissionTicket(4)	Processes thee permission

ticket and generates and
exports rehost ticket.

regenerateLastRehostTicket(5) Generates and exports the
last generated rehost
ticket.

backup(6) Backs up all the licenses
installed currently onto a
backup store.

generateEULA(7)
Checks whether the licenses
in the license file need EULA
acceptance and uploads the
needed EULA contents to a file."

DEFVAL { noOp }
::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of this license action."

::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the position of the action
in the license action job queue that is maintained
internally. Only actions in pending(2) state will
be put in the queue until they are executed. By
reading this object, the management

application can make

intelligent decision on whether to execute another
action that it is planning on. For example, if there
is already a license clear action in the queue in
pending(2) state, management application can choose to
defer its license back up action to a later time. This
object will return a value of 0 if the action is not in
pending(2) state."

::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6)."
 ::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE

SYNTAX StorageType
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."
 DEFVAL { volatile }
 ::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE

SYNTAX RowStatus
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion"
 ::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE

SYNTAX TruthValue
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object indicates whether the End User License Agreement needed for installing the licenses is accepted.

true(1) - EULA is read and accepted

false(2) - EULA is not accepted

Management application should set this object to true(1) when installing licenses that need EULA acceptance."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the End User License Agreements (EULAs) need to be exported to. This object need to be set only if clmgmtLicenseAction is set to generateEULA(7) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 22 }

-- License action results table.

clmgmtLicenseActionResultTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains results of license action if the license action involves multiple licenses. Entries in this table are not created for actions where there is only license that is subject of the action. For example, if there are 3 licenses in a license file when executing license install action, 3 entries will be created in this table, one for each license."

::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE

SYNTAX

ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license."

These entries are created immediately after action execution when the action involves multiple licenses. These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted."

```
INDEX      {
            clmgmtLicenseActionIndex,
            clmgmtLicenseNumber
          }
::= { clmgmtLicenseActionResultTable 1 }
```

```
ClmgmtLicenseActionResultEntry ::= SEQUENCE {
    clmgmtLicenseNumber      Unsigned32,
    clmgmtLicenseIndivActionState ClmgmtLicenseActionState,
    clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
}
```

clmgmtLicenseNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates the sequence number of this license in the list of licenses on which the action is executed. For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file."

```
::= { clmgmtLicenseActionResultEntry 1 }
```

clmgmtLicenseIndivActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of action on this individual license."

```
::= { clmgmtLicenseActionResultEntry 2 }
```

clmgmtLicenseIndivActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for action failure on this individual license"

```
::= { clmgmtLicenseActionResultEntry 3 }
```


-- License Store Info Table

clmgmtLicenseStoreInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseStoreInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains information about all the license stores allocated on the device."

::= { clmgmtLicenseInformation 1 }

clmgmtLicenseStoreInfoEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseStoreInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseStoreInfoTable. Each entry contains information about a license store allocated on the device"

INDEX {
entPhysicalIndex,
clmgmtLicenseStoreIndex
}

::= { clmgmtLicenseStoreInfoTable 1 }

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {

clmgmtLicenseStoreIndex

Unsigned32,

clmgmtLicenseStoreName SnmpAdminString,

clmgmtLicenseStoreTotalSize Unsigned32,

clmgmtLicenseStoreSizeRemaining Unsigned32

}

clmgmtLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license store within the device."

::= { clmgmtLicenseStoreInfoEntry 1 }

clmgmtLicenseStoreName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the license store within the device. It is a file in device's local file system i.e., either on a local disk or flash or some other storage media. For example, the value of this object can be 'disk1:lic_store_1.txt' or 'flash:lic_store_2.txt'"

```
::= { clmgmtLicenseStoreInfoEntry  
2 }
```

clmgmtLicenseStoreTotalSize OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the total number of bytes that are allocated to the license store."

```
::= { clmgmtLicenseStoreInfoEntry 3 }
```

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of bytes still remaining to be used for new license installations in the license store."

```
::= { clmgmtLicenseStoreInfoEntry 4 }
```

-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseDeviceInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects that provide licensing related information

at the device level. Entries will exist

only for entities that support licensing. For example, if it is a stand alone device and supports licensing, then there will be only one entry in this table. If it is stackable switch then there will be multiple entries with one entry for each device in the stack."

```
::= { clmgmtLicenseInformation 2 }
```

clmgmtLicenseDeviceInfoEntry OBJECT-TYPE
 SYNTAX ClmgmtLicenseDeviceInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "An entry in clmgmtLicenseDeviceInfoTable. Each entry
 contains device level licensing information for a device."
 INDEX { entPhysicalIndex }
 ::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {
 clmgmtDefaultLicenseStore Unsigned32
 }

clmgmtDefaultLicenseStore OBJECT-TYPE
 SYNTAX Unsigned32 (1..4294967295)
 MAX-ACCESS read-only
 STATUS
 current
 DESCRIPTION
 "This object indicates the clmgmtLicenseStoreIndex of
 default store in the device. There will be only one
 default license store per device. If no license store
 is specified during license install, this default license
 store will be used."
 ::= { clmgmtLicenseDeviceInfoEntry 1 }

-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ClmgmtLicenseInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains information about all the licenses
 installed on the device."
 ::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE
 SYNTAX ClmgmtLicenseInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "An entry in clmgmtLicenseInfoTable. Each entry contains
 information about a license installed on the device. This
 entry gets created when

a license is installed successfully.

Management application can not create these entries directly, but will do so indirectly by executing license install action.

Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses."

```
INDEX      {
            entPhysicalIndex,
            clmgmtLicenseStoreUsed,
            clmgmtLicenseIndex
        }
 ::= { clmgmtLicenseInfoTable 1 }
```

```
ClmgmtLicenseInfoEntry ::= SEQUENCE {
    clmgmtLicenseStoreUsed      Unsigned32,
    clmgmtLicenseIndex          ClmgmtLicenseIndex,
    clmgmtLicenseFeatureName     SnmpAdminString,
    clmgmtLicenseFeatureVersion  SnmpAdminString,
    clmgmtLicenseType           INTEGER,
    clmgmtLicenseCounted        TruthValue,
    clmgmtLicenseValidityPeriod  Unsigned32,
    clmgmtLicenseValidityPeriodRemaining Unsigned32,
    clmgmtLicenseExpiredPeriod   Unsigned32,
    clmgmtLicenseMaxUsageCount   Unsigned32,
    clmgmtLicenseUsageCountRemaining Unsigned32,
    clmgmtLicenseEULAStatus      TruthValue,
    clmgmtLicenseComments        SnmpAdminString,
    clmgmtLicenseStatus          INTEGER,
    clmgmtLicenseStartDate       DateAndTime,
    clmgmtLicenseEndDate         DateAndTime,
    clmgmtLicensePeriodUsed      Unsigned32
}
```

clmgmtLicenseStoreUsed OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object represents the license store that is used for storing this license. This object will have the same value as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry of the license store used."

```
::= { clmgmtLicenseInfoEntry
1 }
```

clmgmtLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndex

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license within the device."

::= { clmgmtLicenseInfoEntry 2 }

clmgmtLicenseFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the feature that is using or can use this license. A license can be used by only one feature. Examples of feature name are: 'IPBASE', 'ADVIPSERVICE'."

::= { clmgmtLicenseInfoEntry 3 }

clmgmtLicenseFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the feature that is using or can use this license. Examples of feature version are: '1.0', '2.0'"

::= { clmgmtLicenseInfoEntry 4 }

clmgmtLicenseType OBJECT-TYPE

SYNTAX INTEGER {
demo(1),
extension(2),
gracePeriod(3),
permanent(4),
paidSubscription(5),
evaluationSubscription(6),
extensionSubscription(7),
evalRightToUse(8),
rightToUse(9),
permanentRightToUse(10)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period defined in terms of calendar dates."

demo(1)

- demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no
expiry date.

paidSubscription(5) - Paid subscription licenses are the
licenses

which are purchased by customers. These
licenses have a start date and end date
associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are
the trial licenses. These licenses
are node locked and it can be obtained
only once for an UDI. They are valid
based on calendar days. These licenses
have a start date and an end date

associated with them and are issued
once per UDI.

extensionSubscription(7)- Extension subscription licenses are
similar to evaluation subscription
licenses but these licenses are issued
based on customer request. There are
no restrictions on the number of
licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU)
license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured
and is valid for the lifetime of the product.
This is a Right To Use license which is not in
evaluation mode for a limited time."

::=

{ clmgmtLicenseInfoEntry 5 }

clmgmtLicenseCounted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the license is counted
license.

true(1) - counted license

false(2) - uncounted license"

::= { clmgmtLicenseInfoEntry 6 }

clmgmtLicenseValidityPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period the license is valid for.

This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will return 0 for other license types."

::= { clmgmtLicenseInfoEntry 7 }

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"This object indicates the time period remaining before the license expires or transitions to rightToUse(9) license. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will contain 0 for other license types."

::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry."

::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount

OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the maximum number of entities that

can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature."

::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of entities that can still use this license. This object is applicable only if clmgmtLicenseCounted is true(1)."

::= { clmgmtLicenseInfoEntry 11 }

clmgmtLicenseEULAStatus OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the user accepted

End User License Agreement for this license.

true(1) - EULA accpeted

false(2) - EULA not accepted"

::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object represents the user modifiable comments about the license. This object is initially populated with comments from the license file."

::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {

inactive(1),

notInUse(2),

inUse(3),

expiredInUse(4),

expiredNotInUse(5),

usageCountConsumed(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents status of the license.

inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and
available for use.

inUse(3) - the license is being used (by
a feature).

expiredInUse(4) - license is expired but still
being held by the feature.

expiredNotInUse(5) - license is expired and not being
held by any feature.

usageCountConsumed(6) - number of entities using this
licenses has reached the allowed
limit, no new entities are allowed
to use this license."

::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object
indicates the start date for a subscription
license. It is optional for subscription licenses to have a
start date associated with them, they may only have an end
date associated with them. This object may be applicable only
when clmgmtLicenseType is paidSubscription(5),
evaluationSubscription(6) or extensionSubscription (7).
The object will contain an octet string of length 0 when it is
not applicable."

::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the end date for a subscription license.
This object is applicable only when clmgmtLicenseType is
paidSubscription(5), evaluationSubscription(6) or
extensionSubscription (7). The object will contain an octet
string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the Right to use (RTU) licenses. This object is applicable for all RTU licenses."

::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not

be deleted. Management application can not create or delete entries from this table."

::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

INDEX {
entPhysicalIndex,
clmgmtFeatureIndex
}

::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {

clmgmtFeatureIndex Unsigned32,

clmgmtFeatureName SnmpAdminString,

```

    clmgmtFeatureVersion          SnmpAdminString,
    clmgmtFeatureValidityPeriodRemaining Unsigned32,
    clmgmtFeatureWhatIsCounted    SnmpAdminString,
    clmgmtFeatureStartDate        DateAndTime,
    clmgmtFeatureEndDate
        DateAndTime,
    clmgmtFeaturePeriodUsed        Unsigned32
}

```

clmgmtFeatureIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a licensable feature in the device."

::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the licensable feature in the device. Examples of feature names are: 'IPBASE', 'ADVIPSERVICE'"

::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the licensable feature in the device. Examples

of feature versions

are: '1.0' or '2.0'"

::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period remaining before the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by

this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE
(0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this

feature have a valid end date then this object will contain an
octet string of length 0."
::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for
clmgmtDevCredExportActionIndex that can be used to create
an entry in clmgmtDevCredExportActionTable. The management
application should read this object first and then use this
as the value for clmgmtDevCredExportActionIndex to avoid
collisions when creating entries in
clmgmtDevCredExportActionTable. Following this approach does
not guarantee collision free row creation, but will reduce
the probability. The collision will happen if two
management applications read this object at the same time and
attempt to create an entry with this value at the same time.
In this case, the management application whose request is
processed after the first request

will get an error and the

process of reading this object and entry creation needs to be
repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action.

Management application must create this entry to trigger the export of device credentials from the device to a file.

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtDevCredExportActionStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtDevCredExportActionStatus to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by querying clmgmtDevCredCommandState. If the action is still in pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for

failure can
be retrieved from clmgmtDevCredCommandFailCause.

Entry can be deleted except when clmgmtLicenseAction is set
to inProgress(3). All entries in this table are volatile
and are cleared on agent reset."

INDEX { clmgmtDevCredExportActionIndex }
::= { clmgmtDevCredExportActionTable 1 }

ClmgmtDevCredExportActionEntry ::= SEQUENCE {
clmgmtDevCredExportActionIndex Unsigned32,
clmgmtDevCredEntPhysicalIndex PhysicalIndexOrZero,
clmgmtDevCredTransferProtocol ClmgmtLicenseTransferProtocol,
clmgmtDevCredServerAddressType InetAddressType,
clmgmtDevCredServerAddress InetAddress,
clmgmtDevCredServerUsername SnmpAdminString,
clmgmtDevCredServerPassword SnmpAdminString,
clmgmtDevCredExportFile SnmpAdminString,
clmgmtDevCredCommand INTEGER,
clmgmtDevCredCommandState ClmgmtLicenseActionState,
clmgmtDevCredCommandFailCause INTEGER,
clmgmtDevCredStorageType
StorageType,
clmgmtDevCredRowStatus RowStatus
}

clmgmtDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtDevCredExportActionTable. The management application
chooses this value by reading
clmgmtNextFreeDevCredExportActionIndex while creating an
entry in this table. If an entry already exists with this
index, the creation of the entry will not continue and
error will be returned. The management application should
read the value of clmgmtNextFreeDevCredExportActionIndex
again and retry with the new value for this object."

::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device"

DEFVAL { 0 }

::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

."

DEFVAL { none }

::= { clmgmtDevCredExportActionEntry
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object.

This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtDevCredServerAddress are not

allowed.

The format of this address depends on the value of the
clmgmtDevCredServerAddressType

object"

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying
a file to/from an ftp/sftp/scp server.

This object must be set when the
clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
sftp(8). Reading it returns a zero-length string for
security reasons."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents file where device credentials needs
to be exported to."

::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE

```
SYNTAX      INTEGER {
                noOp(1),
                getDeviceCredentials(2)
            }
MAX-ACCESS   read-create
STATUS       current
DESCRIPTION
    "This object indicates the the command to be executed.
```

Command	Remarks

noOp(1)	No operation will be performed.

```
                getDeviceCredentials(2)    Exports device credentials"
DEFVAL       { noOp }
::= { clmgmtDevCredExportActionEntry 9 }
```

clmgmtDevCredCommandState OBJECT-TYPE

```
SYNTAX      ClmgmtLicenseActionState
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
    "This object indicates the state of the action that is
    executed as a result of setting clmgmtDevCredRowStatus
    to active(1)."
::= { clmgmtDevCredExportActionEntry 10 }
```

clmgmtDevCredCommandFailCause OBJECT-TYPE

```
SYNTAX      INTEGER {
                none(1),
                unknownError(2),
                transferProtocolNotSupported(3),
                fileServerNotReachable(4),
                unrecognizedEntPhysicalIndex(5),
                invalidFile(6)
            }
```

```
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
    "This object indicates the the reason for device
    credentials export operation failure.

    The value of this object is valid only when
    clmgmtDevCredCommandState is failed(6).
```

none(1) - action execution has not started yet.
 If the action is completed and the
 action is successful, then also
 none(1) is returned to indicate that
 there are no errors.
 unknownError(2) - reason for failure is unknown,
 operation failed, no operation is
 performed
 transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
 given is not supported.
 fileServerNotReachable(4) - file server is not reachable.
 unrecognizedEntPhysicalIndex(5) - entPhysicalIndex
 is not
 valid
 invalidFile(6) - The target file specified is not valid."
 ::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE

SYNTAX StorageType
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object indicates the storage type for this conceptual
 row. Conceptual rows having the value 'permanent' need not
 allow write-access to any columnar objects in the row."
 DEFVAL { volatile }
 ::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE

SYNTAX RowStatus
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object indicates the the status of this table entry.
 Once the entry status is set to active(1), the associated
 entry cannot be modified until the action completes
 (clmgmtDevCredCommandStatus is set to a value
 other than
 inProgress(3)). Once the action completes
 the only operation possible after this is to delete
 the row.

clmgmtDevCredExportFile is a mandatory object to be
 set when creating this entry."
 ::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:

clmgmtLicenseExpired

clmgmtLicenseExpiryWarning

clmgmtLicenseUsageCountExceeded

clmgmtLicenseUsageCountAboutToExceed

clmgmtLicenseSubscriptionExpiryWarning

clmgmtLicenseSubscriptionExtExpiryWarning

clmgmtLicenseSubscriptionExpired

clmgmtLicenseEvalRTUTransitionWarning

clmgmtLicenseEvalRTUTransition"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

clmgmtLicenseInstalled

clmgmtLicenseCleared

clmgmtLicenseRevoked

clmgmtLicenseEULAAccepted"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

clmgmtLicenseNotEnforced"

```

DEFVAL      { true }
::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
STATUS       current
DESCRIPTION
    "This notification is sent, when a feature license
    expires. This notification will be sent continuously
    every week even after the expiry to alert the management
    application."
::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureValidityPeriodRemaining
            }
STATUS       current
DESCRIPTION
    "This notification is sent when a license is about to

    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry."
::= { ciscoLicenseMgmtMIBNotifs 2 }

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE
OBJECTS      {
                clmgmtLicenseFeatureName,
                clmgmtLicenseFeatureVersion,
                clmgmtLicenseMaxUsageCount,
                clmgmtFeatureWhatIsCounted,
                clmgmtLicenseComments
            }
STATUS       current
DESCRIPTION
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached clmgmtLicenseMaxUsageCount for a counting license."

```

```
::= { ciscoLicenseMgmtMIBNotifs 3 }
```

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

```
OBJECTS      {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseMaxUsageCount,  
    clmgmtLicenseUsageCountRemaining,  
    clmgmtFeatureWhatIsCounted,  
    clmgmtLicenseComments  
}
```

STATUS current

DESCRIPTION

"This notification is sent when clmgmtLicenseUsageCountRemaining has reached 80% of clmgmtLicenseMaxUsageCount for a counting license. This is a warning notification to the management application that very soon the maximum count will be reached and after that the device will not allow new entities to make use of this license."

```
::= { ciscoLicenseMgmtMIBNotifs 4 }
```

clmgmtLicenseInstalled NOTIFICATION-TYPE

```
OBJECTS      {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}
```

STATUS current

DESCRIPTION

"This notification is sent when a license is installed successfully."

```
::= { ciscoLicenseMgmtMIBNotifs 5 }
```

clmgmtLicenseCleared NOTIFICATION-TYPE

```
OBJECTS      {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}
```

STATUS current

DESCRIPTION

"This notification is sent when a license is cleared successfully."

```
::= { ciscoLicenseMgmtMIBNotifs 6 }
```

clmgmtLicenseRevoked NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtLicenseFeatureName,
                clmgmtLicenseFeatureVersion,
                clmgmtLicenseType,
                clmgmtLicenseComments
            }
STATUS
    current
DESCRIPTION
    "This notification is sent when a license is revoked
    successfully."
::= { ciscoLicenseMgmtMIBNotifs 7 }
```

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
STATUS        current
DESCRIPTION
    "This notification is sent when a user accepts End User
    License Agreement (EULA) for a license."
::= { ciscoLicenseMgmtMIBNotifs 8 }
```

clmgmtLicenseNotEnforced NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
STATUS        current
DESCRIPTION
    "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically to indicate that there is no
    license installed for this feature and it needs to
    be done as soon as possible."
::= { ciscoLicenseMgmtMIBNotifs 9 }
```

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureEndDate
            }
STATUS        current
```

DESCRIPTION

"This notification is sent when a subscription license of a feature is about to expire. This notification will be sent as per the following schedule:

Once a week for the last eight weeks

Once a day for the last week

Once a hour for the last day"

::= { ciscoLicenseMgmtMIBNotifs 10 }

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS

current

DESCRIPTION

"This notification is sent when the subscription license end date of a feature is reached but extension period is left. This notification will be sent once a day after the license end date is reached."

::= { ciscoLicenseMgmtMIBNotifs 11 }

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS current

DESCRIPTION

"This notification will be sent after a subscription license of a feature completely expires. It will be sent once a day after the license has completely expired"

::= { ciscoLicenseMgmtMIBNotifs 12 }

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureValidityPeriodRemaining
}

STATUS current

DESCRIPTION

"This notification is sent when Evaluation to Right to use (RTU) license transition is about to happen. The first notification will be sent 10 days before the transition and second


```

        notification will be sent 5 days before the transition."
::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE
OBJECTS      {
    clmgmtFeatureName,
    clmgmtFeatureVersion
}
STATUS       current
DESCRIPTION
    "This notification is sent, when a feature license transitions
    from a evaluation to a Right to use (RTU) license."
::= { ciscoLicenseMgmtMIBNotifs 14 }
-- Conformance

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 2 }

ciscoLicenseMgmtCompliance
MODULE-COMPLIANCE
STATUS       deprecated
DESCRIPTION
    "Compliance statement for Cisco license mgmt MIB."
MODULE       -- this module
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}

GROUP        clmgmtLicenseStoreInformationGroup
DESCRIPTION
    "This group is mandatory for all devices where
    multiple license stores are supported."
::= { ciscoLicenseMgmtCompliances 1 }

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE

```

```

STATUS      current
DESCRIPTION
    "Compliance statement for Cisco license mgmt MIB."
MODULE      -- this module
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}

GROUP      clmgmtLicenseStoreInformationGroup
DESCRIPTION
    "This group is mandatory for all devices where
    multiple license stores are supported."

GROUP      clmgmtLicenseSubscriptionGroup
DESCRIPTION
    "This object group is mandatory for all devices
that
    support subscription licensing."

GROUP      clmgmtLicenseSubscriptionUsageNotifGroup
DESCRIPTION
    "This notification group is mandatory for all devices that
    support subscription licensing."

GROUP      clmgmtLicenseRTUGroup
DESCRIPTION
    "This object group is mandatory for all devices that
    support Right to Use (RTU) licensing."

GROUP      clmgmtLicenseRTUUsageNotifGroup
DESCRIPTION
    "This notification group is mandatory for all devices that
    support Right to use (RTU) licensing."
::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP
OBJECTS      {
    clmgmtNextFreeLicenseActionIndex,

```

```

        clmgmtLicenseActionEntPhysicalIndex,
        clmgmtLicenseActionTransferProtocol,
        clmgmtLicenseServerAddressType,
        clmgmtLicenseServerAddress,
        clmgmtLicenseServerUsername,
        clmgmtLicenseServerPassword,
        clmgmtLicenseFile,
        clmgmtLicenseStore,
        clmgmtLicenseActionLicenseIndex,
        clmgmtLicensePermissionTicketFile,
        clmgmtLicenseRehostTicketFile,
        clmgmtLicenseBackupFile,
        clmgmtLicenseStopOnFailure,
        clmgmtLicenseAction,
        clmgmtLicenseActionState,
        clmgmtLicenseJobQPosition,
        clmgmtLicenseActionFailCause,
        clmgmtLicenseActionStorageType,
        clmgmtLicenseActionRowStatus,
        clmgmtLicenseIndivActionState,
        clmgmtLicenseIndivActionFailCause,
        clmgmtLicenseAcceptEULA,
        clmgmtLicenseEULAFile
    }
    STATUS      current
    DESCRIPTION
        "A collection of objects for performing license deployment
        i.e., license installation, clear and revoke"
    ::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP
    OBJECTS      {
        clmgmtLicenseStoreName,
        clmgmtLicenseStoreTotalSize,
        clmgmtLicenseStoreSizeRemaining
    }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information about
        license storages in the device."
    ::= { ciscoLicenseMgmtGroups 2 }

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP
    OBJECTS      { clmgmtDefaultLicenseStore }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information about

```

device level licensing support information in the device."
::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseType,
 clmgmtLicenseCounted,
 clmgmtLicenseValidityPeriod,
 clmgmtLicenseValidityPeriodRemaining,
 clmgmtLicenseExpiredPeriod,
 clmgmtLicenseMaxUsageCount,
 clmgmtLicenseUsageCountRemaining,
 clmgmtLicenseEULAStatus,
 clmgmtLicenseComments,
 clmgmtLicenseStatus
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
licenses and its state."

::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,

 clmgmtFeatureValidityPeriodRemaining,
 clmgmtFeatureWhatIsCounted
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
licensable features in the software image."

::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP

OBJECTS {
 clmgmtNextFreeDevCredExportActionIndex,
 clmgmtDevCredEntPhysicalIndex,
 clmgmtDevCredTransferProtocol,
 clmgmtDevCredServerAddressType,
 clmgmtDevCredServerAddress,
 clmgmtDevCredServerUsername,
 clmgmtDevCredServerPassword,
 clmgmtDevCredExportFile,

```

        clmgmtDevCredCommand,
        clmgmtDevCredCommandState,
        clmgmtDevCredCommandFailCause,

        clmgmtDevCredStorageType,
        clmgmtDevCredRowStatus
    }
STATUS      current
DESCRIPTION
    "A collection of objects for exporting device credentials
    from the device."
::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
OBJECTS     {
    clmgmtLicenseUsageNotifEnable,
    clmgmtLicenseDeploymentNotifEnable,
    clmgmtLicenseErrorNotifEnable
}
STATUS      current
DESCRIPTION
    "A collection of objects for controlling
    (enabling/disabling) license notifications to a management
    application."
::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseExpired,
    clmgmtLicenseExpiryWarning,
    clmgmtLicenseUsageCountExceeded,

    clmgmtLicenseUsageCountAboutToExceed
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to license usage."
::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseInstalled,
    clmgmtLicenseCleared,
    clmgmtLicenseRevoked,
    clmgmtLicenseEULAAccepted
}
STATUS      current
DESCRIPTION

```

```

    "A collection of notifications related to license deployment."
    ::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS { clmgmtLicenseNotEnforced }
STATUS      current
DESCRIPTION
    "A collection of notifications related to license errors."
    ::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP
OBJECTS      {
    clmgmtLicenseStartDate,
    clmgmtLicenseEndDate,
    clmgmtFeatureStartDate,
    clmgmtFeatureEndDate
}
STATUS      current
DESCRIPTION
    "A collection of objects that provide information specific to
    subscription licenses."
    ::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseSubscriptionExpiryWarning,
    clmgmtLicenseSubscriptionExtExpiryWarning,
    clmgmtLicenseSubscriptionExpired
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to usage of subscription
    licenses."
    ::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP
OBJECTS      {
    clmgmtLicensePeriodUsed,
    clmgmtFeaturePeriodUsed
}
STATUS      current
DESCRIPTION
    "A collection of objects that provide information specific to
    Right to use (RTU) licenses."
    ::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP

```

```

NOTIFICATIONS {
    clmgmtLicenseEvalRTUTransitionWarning,
    clmgmtLicenseEvalRTUTransition
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to Right to use (RTU)
    licenses."
::= { ciscoLicenseMgmtGroups 14 }

```

END

--%DNP% MLC -Edit MLC

--%DNP% MTF -TRUE MTF

1.71 prometheus-procfs 0.7.3

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.72 cffi 1.15.0

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1.73 golang-snappy 0.0.4

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1.74 pierrec-lz4 2.6.1+incompatible

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1.75 lumberjack 2.0.0

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1.76 nkeys 0.3.0

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1.77 bramvdbogaerde-go-scp 0.0.0- 20181214203537-0959688e0628

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1.79 go-socket-io 0.0.0-20170525141029-5447e71f36d3

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1.80 sqlx 1.3.4

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1.81 tdb 1.45.5

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1.82 klauspost-compress 1.13.6

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include/bsd/timeconv.h
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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
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man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslcpy.3bsd

src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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man/fmtcheck.3bsd

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man/stringlist.3bsd

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man/getpeereid.3bsd

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src/expand_number.c

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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

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

src/getentropy_solaris.c

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1.86 protobuf 3.19.1

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1.87 prometheus-common 0.32.1

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1.88 scp 0.14.1

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1.89 libgcrypt 1.8.5 Ubuntu1.1

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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15

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past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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- cipher/sha512-avx2-bmi2-amd64.S

- cipher/sha512-ssse3-amd64.S

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January 9, 2013

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a)

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

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1.90 libssh 0.9.3 2ubuntu2.2

1.90.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: libssh

Upstream-Contact: libssh@libssh.org

Andreas Schneider <asn@cryptomilk.org>

Source: <https://git.libssh.org/projects/libssh.git>

Files: *

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Comment:

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Files: include/libssh/auth.h

include/libssh/bignum.h

include/libssh/bind.h

include/libssh/buffer.h

include/libssh/channels.h

include/libssh/crc32.h

include/libssh/crypto.h

include/libssh/dh.h

include/libssh/ecdh.h

include/libssh/ed25519.h

include/libssh/gssapi.h

include/libssh/kex.h

include/libssh/keys.h

include/libssh/legacy.h

include/libssh/libcrypto.h

include/libssh/libcrypt.h
include/libssh/libssh.h
include/libssh/libsshpp.hpp
include/libssh/messages.h
include/libssh/misc.h
include/libssh/packet.h

include/libssh/pcap.h
include/libssh/pki.h
include/libssh/pki_priv.h
include/libssh/poll.h
include/libssh/priv.h
include/libssh/scp.h
include/libssh/server.h
include/libssh/session.h
include/libssh/sftp.h
include/libssh/socket.h
include/libssh/string.h
include/libssh/threads.h
include/libssh/wrapper.h
src/auth1.c
src/base64.c
src/bignum.c
src/bind.c
src/buffer.c
src/client.c
src/connect.c
src/crc32.c
src/ecdh.c
src/error.c
src/gcrypt_missing.c
src/init.c
src/kex.c
src/kex1.c
src/legacy.c
src/libcrypto.c
src/libgcrypt.c
src/log.c
src/messages.c
src/packet.c
src/packet1.c
src/packet_cb.c
src/packet_crypt.c
src/pcap.c
src/pki_container_openssh.c
src/pki_ed25519.c
src/server.c
src/session.c

src/sftpserver.c
src/socket.c
src/string.c
src/threads.c
src/threads/pthread.c
src/wrapper.c
tests/benchmarks/bench_raw.c
tests/benchmarks/bench_scp.c
tests/benchmarks/bench_sftp.c
tests/benchmarks/benchmarks.c
tests/benchmarks/benchmarks.h
tests/benchmarks/latency.c
tests/client/torture_algorithms.c
tests/client/torture_auth.c
tests/client/torture_connect.c
tests/client/torture_knownhosts.c
tests/client/torture_session.c
tests/test_pcap.c
tests/test_socket.c

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Files: examples/exec.c
examples/senddata.c
examples/CMakeLists.txt
include/libssh/ssh1.h
include/libssh/ssh2.h
tests/authentication.c
tests/benchmarks/bench1.sh
tests/benchmarks/bench2.sh
tests/chmodtest.c
tests/client/torture_proxycommand.c
tests/client/torture_sftp_dir.c
tests/client/torture_sftp_read.c
tests/cmdline.c
tests/connection.c
tests/generate.py
tests/sftp_stress/main.c
tests/test_exec.c
tests/test_ssh_bind_accept_fd.c
tests/test_tunnel.c
tests/tests.h
tests/unittests/torture_buffer.c
tests/unittests/torture_callbacks.c
tests/unittests/torture_channel.c
tests/unittests/torture_init.c
tests/unittests/torture_isipaddr.c
tests/unittests/torture_keyfiles.c

tests/unittests/torture_list.c
tests/unittests/torture_misc.c
tests/unittests/torture_options.c
tests/unittests/torture_pki.c
tests/unittests/torture_rand.c

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Files: examples/authentication.c

examples/connect_ssh.c
examples/examples_common.h
examples/knownhosts.c
examples/libssh_scp.c
examples/libsshpp.cpp
examples/libsshpp_noexcept.cpp
examples/proxy.c
examples/sample.c
examples/samplesftp.c
examples/samplesshd-cb.c
examples/samplesshd-kbdint.c
examples/scp_download.c
examples/sshnetcat.c

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Files: src/external/curve25519_ref.c

src/external/ed25519.c
src/external/fe25519.c
src/external/ge25519.c
src/external/ge25519_base.data
src/external/sc25519.c

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Files: tests/pkd/pkd_client.h

tests/pkd/pkd_daemon.c
tests/pkd/pkd_daemon.h
tests/pkd/pkd_hello.c
tests/pkd/pkd_keyutil.c
tests/pkd/pkd_keyutil.h

tests/pkd/pkd_util.c
tests/pkd/pkd_util.h
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Files: src/channels.c
src/channels1.c
src/gzip.c
src/known_hosts.c
src/misc.c
src/options.c
src/pki.c
src/pki_crypto.c
src/pki_gcrypt.c
src/sftp.c

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Files: include/libssh/agent.h
include/libssh/options.h
src/agent.c
src/callbacks.c
src/config.c
tests/client/torture_forward.c
tests/client/torture_request_env.c
tests/torture.c
tests/torture.c
tests/torture.h

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Files: include/libssh/curve25519.h
src/curve25519.c

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src/scp.c

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Files: src/match.c

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cmake/Modules/DefineCompilerFlags.cmake

cmake/Modules/DefineInstallationPaths.cmake

cmake/Modules/DefinePlatformDefaults.cmake

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Comment:

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Files: cmake/Modules/AddCMockaTest.cmake
cmake/Modules/CheckCCompilerFlagSSP.cmake
cmake/Modules/FindArgp.cmake
cmake/Modules/FindCMocka.cmake
cmake/Modules/FindGCrypt.cmake
cmake/Modules/FindGSSAPI.cmake
cmake/Modules/FindNaCl.cmake
cmake/Modules/FindNSIS.cmake
cmake/Modules/MacroEnsureOutOfSourceBuild.cmake
cmake/Modules/UseDoxygen.cmake

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Files: debian/*

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Marc Abramowitz
immerrr again
Alexander Artemenko
Aymeric Augustin
Lee Ball
Ben Bariteau
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Jon Dufresne
Tim Graham
Thomas Grainger
Max Grender-Jones
Joshua Harlow
Toshiki Kataoka
Hugo van Kemenade
Anselm Kruis
Ivan Levkivskyi
Alexander Lukanin
James Mills
Jordan Moldow
Berker Peksag
Sridhar Ratnakumar
Erik Rose
Mirko Rossini
Peter Ruibal
Miroslav Shubernetskiy
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Any executables

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1.95 pq 1.10.4

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```
//go:build go1.10
```

```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.  
//  
// Note: Notice handlers are executed synchronously by pq meaning commands  
// won't continue to be processed until the handler returns.  
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {  
    c.(*conn).noticeHandler = handler  
}
```

```
// NoticeHandlerConnector wraps a regular connector and sets a notice handler  
//  
// on it.  
type NoticeHandlerConnector struct {  
    driver.Connector  
    noticeHandler func(*Error)  
}
```

```
// Connect calls the underlying connector's connect method and then sets the
```



```

// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

```

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
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2.1.2	2.1.1	2002	PSF	yes
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This package was debianized by

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Nicols Lichtmaier <nick@debian.org> on Sat, 18 Oct 1997 21:23:12 -0300

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

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.

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1.106 zlib 1.2.12

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* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 11th, 2022

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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).

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1.108 distro 1.4.0

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1.110 progress 1.5

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1.111 retrying 1.3.3

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1.112 pkg_resources 0.0.0

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Metadata-Version: 2.0

Name: pkg_resources

Version: 0.0.0

Summary: UNKNOWN

Home-page: UNKNOWN

Author: UNKNOWN
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UNKNOWN

Found in path(s):

* /pkg-resources-0-0-0-dist-info-zip/inputdir/packages_extracted/wheel/103/pkg_resources-0.0.0.dist-info/METADATA

1.113 pycparser 2.20

1.113.1 Available under license :

pycparser -- A C parser in Python

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1.114 blang-semver 3.5.1+incompatible

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1.115 go-resiliency 1.2.0

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1.116 gojsonschema 1.2.0

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1.117 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.118 paramiko 2.11.0

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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

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1.119 libns! 2.31

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1.120 go-uuid 1.2.1-0.20181028125025-b2ce2384e17b

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1.121 go-zookeeper 0.0.0-20201211165307-7117e9ea2414

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This package was debianized by Russell Coker <russell@coker.com.au> on Fri, 20 Aug 2004 17:26:18 +1000.

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Manoj Srivastava

<srivasta@debian.org>

arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.123 xz 5.2.4 1ubuntu1.1

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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Comment:

From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

.

[...]

.

> AUTHORS, ChangeLog, COPYING, README, THANKS, TODO,

> dos/README,

windows/README

.

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Files: INSTALL NEWS PACKAGERS

windows/README-Windows.txt

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Files: Doxyfile.in
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Files: src/liblzma/check/crc32_table_?e.h
src/liblzma/check/crc64_table_?e.h
src/liblzma/lzma/fastpos_table.c
src/liblzma/rangecoder/price_table.c
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src/liblzma/check/crc32_tablegen.c

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changelog.gz (commit 975d8fd) explains:

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Recreated the BCJ test files for x86 and SPARC. The old files were linked with crt*.o, which are copyrighted, and thus the old test files were not in the public domain as a whole. They are freely distributable though, but it is better to be careful and avoid including any copyrighted pieces in the test files. The new files are just compiled and assembled object files, and thus don't contain any copyrighted code.

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Files: INSTALL.generic

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Files: dos/config.h

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
Autoconf 2.52g

License: config-h
configure.ac:

```
.
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.
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```

dos/config.h was generated with autoheader, which tells Autoconf to output a script to generate a config.h file and then runs it.

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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Authors: Bruno Haible

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Version 3, 29 June 2007

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bash: <ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz>

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support/man2html.c

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```
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1.126 openssl 3.0.5

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```
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/testing/googletest.cc  
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/descriptor.proto  
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any.cc  
*  
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/dynamic_message.cc  
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
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*  
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/repeated_ptr_field.cc  
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/books.proto  
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/text_format_unittest.cc  
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_kotlin_generator.h  
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
1.47.0/third_party/protobuf/src/google/protobuf/unittest_import_public.proto  
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
```


1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_primitive_field.h
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/type_resolver_util_test.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format.h
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/time_util.cc
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/datapiece.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/strtod.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/map_proto2_unittest.proto

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*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/explicitly_constructed.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_entry_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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*
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/duration.proto
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/utility.cc
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*
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/logging.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/parse_context.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

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1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_oneof.h
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any.proto
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_lite_unittest.proto
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/struct.proto
 *
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/tokenizer.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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1.47.0/third_party/protobuf/src/google/protobuf/unittest_mset_wire_format.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_reflection.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/error_listener.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/dynamic_message_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/default_value_test.proto
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_extension.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/package_info.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/int128.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_enum.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_proto3_lite.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_names.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/json_escaping.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/hash.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field_lite.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena_test_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arenastring.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/proto_writer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_tctable_impl.h

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/oneofs.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/default_value_objectwriter_test.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/well_known_types_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_message.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/timestamp_duration.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any_lite.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_field_lite.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/empty.proto
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_field_base.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_repeated_message_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wrappers.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_file.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/timestamp.proto
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/proto3_arena_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/implicit_weak_message.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/zip_writer.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_lite.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_builder_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/utility.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/once.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/importer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_type_handler.h

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_enum_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/type_resolver.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/php/php_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_file.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/tokenizer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/python/python_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/proto3_arena_lite_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any_test.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util_lite.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/io_win32_unittest.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/field_mask_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_entry.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_enum.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_empty.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena_test_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/parser_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/mathutil.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_doc_comment.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_field_base.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/object_location_tracker.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/zip_writer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/repeated_field.cc

```



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*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/package_info.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/statusor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_import_public_lite.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/field_mask.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/preserve_unknown_enum_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/gzip_stream.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/lite_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/port.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/command_line_interface.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_internal.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/api.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format_lite.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_tctable_lite.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/int128.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field_inl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_generator_factory.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/port_undef.inc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/time_util_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/stringpiece.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/strutil.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/plugin.proto
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/coded_stream.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_mset.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_table_driven_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

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1.47.0/third_party/protobuf/src/google/protobuf/descriptor_database_unittest.cc
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena_unittest.cc
 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/any.proto
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_file.cc
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/type_resolver_util.cc
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 *
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 *
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/package_info.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_doc_comment_unittest.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/common.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_names.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_primitive_field.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/protostream_objectsource_test.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/default_value.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_context.cc
 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_test_large_enum_value.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_options.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_generator.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/statusor.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/message_differencer.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message_field.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/wrappers.proto
 *

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/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/json_stream_parser_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_plugin_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_tester.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/field_mask.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/proto3.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unknown_field_set_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_reflection.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/json_format.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/constants.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/text_format.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format_unittest.inc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/php/php_generator.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/field_comparator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/zero_copy_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set_inl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_file.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/metadata.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/main.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_primitive_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_proto3.proto
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_tctable_decl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/has_bits.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_generator_factory.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/command_line_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

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1.47.0/third_party/protobuf/src/google/protobuf/unittest_proto3_optional.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/dynamic_message.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/datapiece.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/mock_code_generator.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor_database.cc
 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_generator.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/statusor_test.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_helpers.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/field_mask_utility.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_tester.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection.h
 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/generated_message_util.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_enum.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/time.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/type_info.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/unittest_lazy_dependencies_enum.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/status_test.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/field_comparator_test.cc
 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/generated_message_table_driven.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/protostream_objectwriter_test.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/type.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/generated_message_table_driven_lite.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/empty.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_shared_code_generator.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/parse_context.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/type_info_test_helper.h

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*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/js/well_known_types_embed.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_padding_optimizer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_proto3_arena.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/io/zero_copy_stream_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/stubs/bytestream_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/protostream_objectsource.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_map_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_enum_field.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/mock_error_listener.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_no_field_presence.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_embed_optimize_for.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_reflection_class.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_file.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_oneof.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_reflection_unittest.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/metadata_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/testing/file.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/source_context.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_message.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util.inc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/io_win32.h
*

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/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/lite_arena_unittest.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/proto3_lite_unittest.inc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor_database.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/port_def.inc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/testing/file.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/timestamp.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util2.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/tokenizer_unittest.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/source_context.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/command_line_interface_unittest.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/strutil_unittest.cc
 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_lite_test_util.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_field.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/field_mask.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/time_util.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/gzip_stream.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_doc_comment.h

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_lite_test_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_field.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_unittest.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/repeated_field_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/field_comparator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/status.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/parser.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/service.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_drop_unknown_fields.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/int128_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_wrapper_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/json_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_generator.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/json_objectwriter_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/common_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/subprocess.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/proto3_lite_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/status.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_repeated_primitive_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_import_lite.proto

```



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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/delimited_message_util_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/io/zero_copy_stream_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_plugin_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_primitive_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_source_generator_base.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_bases.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_message_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_map_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/time_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_import.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_lazy_dependencies.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_move_unittest.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_bootstrap_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_name_resolver.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/printer.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_table_driven.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/importer_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_test_util_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_extension_lite.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/object_writer.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/printer_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/coded_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/macros.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_service.h

```

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/port.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_message.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/bytestream.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/js/well_known_types_embed.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/expecting_objectwriter.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set_heavy.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/importer.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_bootstrap_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/type_resolver_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_helpers.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/substitute.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/drop_unknown_fields_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/js/js_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_doc_comment.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/common.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message_unittest.inc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_callback.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/grpc_root/include/grpcpp/impl/codegen/server_callback_handlers.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/async_stream.h

*

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_callback.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/stream.h

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/casts.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/map_util.h

*

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
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- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_abseil.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/channel_test_peer.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_abseil.h

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```

Found in path(s):

- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/internal/memory_allocator_impl.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_certificate_provider.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/main.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/binder_credentials.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/binder_security_policy.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/event_engine.h
- *
- /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/complicated.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simpler.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/authorization_policy_provider.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/admin_services.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_certificate_verifier.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/orca_service.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/port.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/flawed.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/create_channel_binder.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/slice_buffer.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/memory_allocator.h
- *
- /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simple.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/main.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/memory_request.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/endpoint_config.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simplest.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/xds_server_builder.h

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Found in path(s):

```
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/security/auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/async_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_generator.h
*
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_private_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/alloc.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_generic.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/server_builder_option.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/method_handler.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/async_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/async_generic_service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator.h
*
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/metadata_map.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/channel_arguments.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/serialization_traits.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/objective_c_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator_helpers-inl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_generator.h
*
```

```

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm_gcc_sync.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/port_platform.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/client_interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator_string-inl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/async_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/config.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/compression.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/node_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm_gcc_atomic.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/server_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/sync_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/port_platform.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/log.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/protobuf_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/rpc_method.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/server.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/service_type.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/completion_queue.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/create_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/schema_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_generator_helpers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm_gcc_sync.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/status_code_enum.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/auth_metadata_processor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/grpc_types.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/objective_c_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_generic.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/config_protobuf.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_generator_helpers.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/serialization_traits.h

```

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_reader.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/byte_buffer_reader.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/workaround_list.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/status.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/objective_c_generator_helpers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/server_credentials.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/interceptor.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/server_interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/call_hook.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/slice_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/client_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator_map-inl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/rpc_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/grpcpp.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/status.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/string_ref.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/credentials.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/string_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/client_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_posix.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/cpu.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/method_handler_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/string_ref.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/proto_utils.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/method_handler.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/status.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/log_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/log.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/stub_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_posix.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/create_auth_context.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/grpc_library.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/stub_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/alarm.h

```



```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_generator_helpers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/byte_buffer_reader.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/generator_helpers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/generic/generic_stub.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm_gcc_atomic.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/objective_c_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/grpc_security.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/service_type.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/byte_buffer.h
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```

```

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```

Found in path(s):

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/error_details.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/load_reporting.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_custom.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_custom.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/fork.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/mock_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/fork.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/channel_argument_option.h
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```

```

/*

```

```

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*
*/

```

Found in path(s):

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/grpc.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/census.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/server_builder.h
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```

```

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*
*/

```

Found in path(s):

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/call_op_set.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/proto_utils.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/interceptor_common.h
*

```

```

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_writer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/generic/async_generic_service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/stub_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/call_op_set_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/config_protobuf.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/proto_buffer_reader.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/server_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/rpc_service_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/status.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/server_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/callback_common.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/create_channel_posix.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/async_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/create_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/call_hook.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/core_codegen.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/health_check_service_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/server_initializer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/thd_id.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/rpc_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/service_type.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/grpc++.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/rpc_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/completion_queue.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/sync_stream.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/server_builder_option.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/async_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/generic/generic_stub.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/test/mock_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/client_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/server_callback.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/status_code_enum.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/method_handler_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/serialization_traits.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/async_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/create_auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/alarm.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/service_type.h

```

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/server_builder_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/client_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/server_interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/method_handler_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/channel_argument_option.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/error_details.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/grpc_root/include/grpc++/ext/health_check_service_server_builder_option.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/rpc_service_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/security/auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/grpc_library.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/sync_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/ext/server_load_reporting.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/serialization_traits.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/client_callback.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/stub_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/proto_buffer_writer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/generic/async_generic_service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/ext/channelz_service_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/status_code_enum.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server_posix.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/client_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/client_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/call.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/completion_queue.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/string_ref.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/security/credentials.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/channel_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/intercepted_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/method_handler_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/grpc_library.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/channel_arguments.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/status.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/string_ref.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/security/auth_metadata_processor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/async_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/test/server_context_test_spouse.h

```

```
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/security/server_credentials.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/metadata_map.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/resource_quota.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/security/auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server_builder.h
```

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Metadata-Version: 1.2

Name: grpcio-tools

Version: 1.47.0

Summary: Protobuf code generator for gRPC

Home-page: <https://grpc.io>

Author: The gRPC Authors

Author-email: grpc-io@googlegroups.com

License: Apache License 2.0

Description: gRPC Python Tools

=====

Package for gRPC Python tools.

Supported Python Versions

Python >= 3.6

Installation

The gRPC Python tools package is available for Linux, Mac OS X, and Windows.

Installing From PyPI

~~~~~

If you are installing locally...

::

\$ pip install grpcio-tools

Else system wide (on Ubuntu)...

::

```
$ sudo pip install grpcio-tools
```

If you're on Windows make sure that you installed the `:code:`pip.exe`` component when you installed Python (if not go back and install it!) then invoke:

```
::
```

```
$ pip.exe install grpcio-tools
```

Windows users may need to invoke `:code:`pip.exe`` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *\*must\** have a recent release of `:code:`pip`` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to include your system.

#### Installing From Source

~~~~~

Building from source requires that you have the Python headers (usually a package named `:code:`python-dev``) and Cython installed. It further requires a GCC-like compiler to go smoothly; you can probably get it to work without GCC-like stuff, but you may end up having a bad time.

```
::
```

```
$ export REPO_ROOT=grpc # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init
```

```
$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py
```

```
# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting

~~~~~

Help, I ...

`* **... see a** :code:`pkg_resources.VersionConflict` **when I try  
to install  
grpc**`

This is likely because `:code:`pip`` doesn't own the offending dependency,  
which in turn is likely because your operating system's package manager owns  
it. You'll need to force the installation of the dependency:

`:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY``

For example, if you get an error like the following:

::

```
Traceback (most recent call last):
  File "<string>", line 17, in <module>
  ...
  File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
    raise VersionConflict(dist, req)
pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))
```

You can fix it by doing:

::

```
sudo pip install --ignore-installed six
```

`* **... see compiler errors  
on some platforms when either installing from source or from the source distribution**`

If you see

::

```
/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
#include "Python.h"
      ^
compilation terminated.
```

You can fix it by installing ``python-dev`` package. i.e

::

```
sudo apt-get install python-dev
```

If you see something similar to:

```
::
```

```
third_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro
'SIGNED_INT_MAX'
    static const Type kPosMax = SIGNED_INT_MAX(Type); \
                                ^
```

And your toolchain is GCC (at the time of this writing, up through at least GCC 6.0), this is probably a bug where GCC chokes on constant expressions when the `-fwrapv` flag is specified. You should consider setting your environment with `CFLAGS=-fno-wrapv` or using clang (`CC=clang`).

#### Usage

-----

Given protobuf include directories `$INCLUDE`, an output directory `$OUTPUT`, and proto files `$PROTO_FILES`, invoke as:

```
::
```

```
$ python -m grpc_tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT
$PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided command class in your `setup.py`:

```
::
```

```
setuptools.setup(
    # ...
    cmdclass={
        'build_proto_modules': grpc_tools.command.BuildPackageProtos,
    }
    # ...
)
```

Invocation of the command will walk the project tree and transpile every `.proto` file into a `_pb2.py` file in the same directory.

Note that this particular approach requires `grpcio-tools` to be installed on the machine before the setup script is invoked (i.e. no combination of `setup_requires` or `install_requires` will provide access to `grpc_tools.command.BuildPackageProtos` if it isn't already installed). One way to work around this can be found in our



```
:code:`grpcio-health-checking`  
`package <https://pypi.python.org/pypi/grpcio-health-checking>`_:
```

```
::
```

```
class BuildPackageProtos(setuptools.Command):  
    """Command to generate project *_pb2.py modules from proto files."""  
    # ...  
    def run(self):  
        from grpc_tools import command  
        command.build_package_protos(self.distribution.package_dir[""])
```

Now including ``grpcio-tools`` in ``setup_requires`` will provide the command on-setup as desired.

For more information on command classes, consult ``distutils`` and ``setuptools`` documentation.

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 3

Classifier: License :: OSI Approved :: Apache Software License

Requires-Python: >=3.6

Found in path(s):

\* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/PKG-INFO

\* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpcio\_tools.egg-info/PKG-INFO

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```
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# this software without specific prior written permission.
```

Found in path(s):

\* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third\_party/protobuf/src/google/protobuf/io/gzip\_stream\_unittest.sh

\* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third\_party/protobuf/src/google/protobuf/compiler/zip\_output\_unittest.sh

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```

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 *
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 *
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 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

Found in path(s):

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/opencensus.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/message_allocator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/sync.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
*
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/validate_service_config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_credentials_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/alts_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/alts_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/config_protobuf.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_plugin.h
*
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/cronet_credentials.h

```

# 1.128 grpcio 1.47.0

## 1.128.1 Available under license :

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## 1.129 influxdb 1.9.5

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## 1.130 e2fsprogs 1.45.5 2ubuntu1.1

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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): $(OBS)
```

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

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

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

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

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

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

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

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

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

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

```
install-strip: install
```

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

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

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

```
clean::
```

```
$(RM)
```

```
-rf pic
```

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

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

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell           2005
- + Copyright (C) Andrew Tridgell           1999-2005
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- + Copyright (C) Paul 'Rusty' Russell      2000

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before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o  
23-June-2007

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

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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## 1.144 util-linux 2.34 0.1ubuntu9.3

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## 1.145 acl 2.2.53 6

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exports

include/\*.h

libacl/\*.c

libacl/\*.h

libmisc/\*.c

tools/do\_set.\*

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## 1.148 sarama 1.30.0

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|                  |                           |
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\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Both were inspired by Twisted

[FancyEqMixin](https://docs.twisted.org/en/stable/api/twisted.python.util.FancyEqMixin.html)

but both are implemented using class decorators because [subclassing is bad for you](https://www.youtube.com/watch?v=3MNVP9-hglc), mkay?

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## cw\_ztp\_license\_device.proto

[cwztpsvc-ZtpLicenseDevice](#)

### ZtpLicenseDevice

| Field              | Type     | Label     | Description |
|--------------------|----------|-----------|-------------|
| deviceSerialNumber | [string] | (#string) |             |

## Scalar Value Types

| .proto Type | Notes | C++ | Java | Python | Go | C# | PHP | Ruby |
|-------------|-------|-----|------|--------|----|----|-----|------|
| -----       | ----- | --- | ---  | -----  | -- | -- | --- | ---- |

| `<a name="double" />` double | double | double | float | float64 | double | float | Float |  
 | `<a name="float" />` float | float | float | float | float32 | float | float | Float |  
 | `<a name="int32" />` int32 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | `<a name="int64" />` int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | `<a name="uint32" />` uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum or Fixnum (as required) |  
 | `<a name="uint64" />` uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum or Fixnum (as required) |  
 | `<a name="sint32" />` sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | `<a name="sint64" />` sint64 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | `<a name="fixed32" />` fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2<sup>28</sup>. | uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |  
 | `<a name="fixed64" />` fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than 2<sup>56</sup>. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |  
 | `<a name="sfixed32" />` sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | `<a name="sfixed64" />` sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | `<a name="bool" />` bool | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |  
 | `<a name="string" />` string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String | str/unicode | string | string | string | String (UTF-8) |  
 | `<a name="bytes" />` bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte | ByteString | string | String (ASCII-8BIT) |  
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## ## cw\_ztp\_license\_device\_v2.proto

<a name="cwztpsvc-ZtpLicenseDeviceV2"></a>

### ZtpLicenseDeviceV2

| Field        | Type              | Label    | Description |
|--------------|-------------------|----------|-------------|
| uuid         | [string](#string) |          |             |
| serialNumber | [string](#string) | repeated |             |
| locationId   | [string](#string) |          |             |

## ## Scalar Value Types

| .proto               | Type    | Notes                                                                                                                                         | C++    | Java   | Python   | Go      | C#     | PHP            | Ruby                           |
|----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|----------|---------|--------|----------------|--------------------------------|
| <a name="double" />  | double  |                                                                                                                                               | double | double | float    | float64 | double | float          | Float                          |
| <a name="float" />   | float   |                                                                                                                                               | float  | float  | float    | float32 | float  | float          | Float                          |
| <a name="int32" />   | int32   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32  | int    | int      | int32   | int    | integer        | Bignum or Fixnum (as required) |
| <a name="int64" />   | int64   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64  | long   | int/long | int64   | long   | integer/string | Bignum                         |
| <a name="uint32" />  | uint32  | Uses variable-length encoding.                                                                                                                | uint32 | int    | int/long | uint32  | uint   | integer        | Bignum or Fixnum (as required) |
| <a name="uint64" />  | uint64  | Uses variable-length encoding.                                                                                                                | uint64 | long   | int/long | uint64  | ulong  | integer/string | Bignum or Fixnum (as required) |
| <a name="sint32" />  | sint32  | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.                          | int32  | int    | int      | int32   | int    | integer        | Bignum or Fixnum (as required) |
| <a name="sint64" />  | sint64  | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.                          | int64  | long   | int/long | int64   | long   | integer/string | Bignum                         |
| <a name="fixed32" /> | fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.                                                          | uint32 | int    | int      | uint32  | uint   | integer        | Bignum or Fixnum (as required) |

```
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass
|
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String |
str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto
```

```
package cwztpsvc
```

```
import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    math "math"
)
```

```
// Reference imports to suppress errors if they are not otherwise used.
```

```
var _ = proto.Marshal
```

```
var _ = fmt.Errorf
```

```
var _ = math.Inf
```

```
// This is a compile-time assertion to ensure that this generated file
```

```
// is compatible with the proto package it is being compiled against.
```

```
// A compilation error at this line likely means your copy of the
```

```
// proto package needs to be updated.
```

```
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package
```

```
type ZtpLicenseDeviceV2 struct {
```

```
    Uuid          string  `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
```

```
    SerialNumber   []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
```

```
    LocationId     string  `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
```

```
    XXX_NoUnkeyedLiteral
```

```
    struct{} `json:"-"`
```

```
    XXX_unrecognized []byte  `json:"-"`
```

```
    XXX_sizecache    int32   `json:"-"`
```

```
}
```

```
func (m *ZtpLicenseDeviceV2) Reset()      { *m = ZtpLicenseDeviceV2{} }
```

```
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
```

```
func (*ZtpLicenseDeviceV2) ProtoMessage() {}
```

```
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
```

```
    return fileDescriptor_187379be6b6c9b7c, []int{0}
```

```

}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var
    xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
    if m != nil {
        return m.Uuid
    }
    return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
    if m != nil {
        return m.SerialNumber
    }
    return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
    if m != nil {
        return m.LocationId
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
    proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

```

```

}

var fileDescriptor_187379be6b6c9b7c = []byte{
    // 219 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
    0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
    0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
    0x65,
    0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
    0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
    0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
    0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
    0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
    0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
    0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
    0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
    0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
    0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
    0x00, 0xff, 0xff, 0x66,
    0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}

// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicense struct {
    Id          int32   `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
    Status      string  `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
    LastUpdated int64   `protobuf:"varint,3,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
}

```

```

XXX_NoUnkeyedLiteral
struct{} `json:"-`
XXX_unrecognized []byte `json:"-`
XXX_sizecache    int32 `json:"-`
}

func (m *ZtpLicense) Reset()      { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage() {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
    return fileDescriptor_4e24d0294ce39e81, []int{0}
}

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
    return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func
(m *ZtpLicense) GetId() int32 {
    if m != nil {
        return m.Id
    }
    return 0
}

func (m *ZtpLicense) GetStatus() string {
    if m != nil {
        return m.Status
    }
    return ""
}

func (m *ZtpLicense) GetLastUpdated() int64 {
    if m != nil {

```

```

return m.LastUpdated
}
return 0
}

func init() {
    proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
    proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
    // 222 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
    0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
    0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
    0x9a, 0xa9, 0x85, 0xfe, 0x7a, 0x69, 0xb7, 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
    0xfb, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48,
    0x58, 0x5f, 0xc2, 0xfe,
    0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
    0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xfc, 0xc5, 0xf9, 0x92, 0xf2, 0xfb, 0x90, 0xad, 0x6f, 0x78, 0x15,
    0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
    0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
    0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xab, 0x5b, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
    0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
    0xb0, 0xe5, 0xab, 0x0f, 0xb4, 0xde, 0xf5, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0xf4, 0xbc, 0x9b, 0x7f,
    0xa8, 0x13, 0xe2, 0xe5, 0xf8, 0x83, 0xc7, 0x68, 0x92, 0x57, 0x23, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
    0xdf, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01, 0x00, 0x00,
}

# Protocol Documentation
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## cw_ztp_license.proto

```



<a name="cwztpsvc-ZtpLicense"></a>

### ZtpLicense

| Field       | Type              | Label | Description |
|-------------|-------------------|-------|-------------|
| id          | [int32](#int32)   |       |             |
| status      | [string](#string) |       |             |
| lastUpdated | [int64](#int64)   |       |             |

## Scalar Value Types

| .proto Type | Notes                                                                                                                                         | C++    | Java   | Python   | Go      | C#     | PHP            | Ruby                           |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|----------|---------|--------|----------------|--------------------------------|
| double      |                                                                                                                                               | double | double | float    | float64 | double | float          | Float                          |
| float       |                                                                                                                                               | float  | float  | float    | float32 | float  | float          | Float                          |
| int32       | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32  | int    | int      | int32   | int    | integer        | Bignum or Fixnum (as required) |
| int64       | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64  | long   | int/long | int64   | long   | integer/string | Bignum                         |
| uint32      | Uses variable-length encoding.                                                                                                                | uint32 | int    | int/long | uint32  | uint   | integer        | Bignum or Fixnum (as required) |
| uint64      | Uses variable-length encoding.                                                                                                                | uint64 | long   | int/long | uint64  | ulong  | integer/string | Bignum or Fixnum (as required) |
| sint32      | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.                          | int32  | int    | int      | int32   | int    | integer        | Bignum or Fixnum (as required) |
| sint64      | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.                          | int64  | long   | int/long | int64   | long   | integer/string | Bignum                         |

```
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII
text. | string | String | str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto
```

```
package cwztpsvc
```

```
import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)
```

```
// Reference imports to suppress errors if they are not otherwise used.
```

```
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf
```

```
// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package
```

```
type ZtpLicenseDevice struct {
    DeviceSerialNumber string `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
    XXX_NoUnkeyedLiteral struct{} `json:"-"`
    XXX_unrecognized []byte `json:"-"`
    XXX_sizecache int32 `json:"-"`
}
```

```
func (m *ZtpLicenseDevice)
Reset() { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage() {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
```

```

return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
if m
!= nil {
return m.DeviceSerialNumber
}
return ""
}

func init() {
proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

var fileDescriptor_4637a3ce942b5232 = []byte{
// 201 bytes of a gzipped FileDescriptorProto
0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
0xbc, 0x6c, 0x42,
0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,

```

```
0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
```

## 1.160 prometheus-client 0.2.0

### 1.160.1 Available under license :

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## 1.161 golang-genproto 0.0.0-20221207170731-23e4bf6bdc37

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# 1.162 crosswork-robot-api 4.5.0.5

## 1.162.1 Available under license :

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## cw\_ztp\_license\_device.proto

[<a name="cwztpsvc-ZtpLicenseDevice"></a>](#)

### ZtpLicenseDevice

| Field              | Type              | Label | Description |
|--------------------|-------------------|-------|-------------|
| deviceSerialNumber | [string](#string) |       |             |

## ## Scalar Value Types

| .proto Type | Notes | C++ | Java | Python | Go | C# | PHP | Ruby |  
| ----- | ---- | --- | ---- | ----- | -- | -- | --- | ---- |  
| <a name="double" /> double | | double | double | float | float64 | double | float | Float |  
| <a name="float" /> float | | float | float | float | float32 | float | float | Float |  
| <a name="int32" /> int32 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32 | int | int | int32 | int | integer |  
| Bignum or Fixnum (as required) |  
| <a name="int64" /> int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
| <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum or Fixnum (as required) |  
| <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum or Fixnum (as required) |  
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
| <a name="sint64" /> sint64 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2<sup>28</sup>. | uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |  
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than 2<sup>56</sup>. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |  
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |  
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String | str/unicode | string | string | string | String (UTF-8) |  
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |  
| ByteString | string | String (ASCII-8BIT) |  
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## cw\_ztp\_license\_device\_v2.proto

<a name="cwztpsvc-ZtpLicenseDeviceV2"></a>

### ZtpLicenseDeviceV2

| Field        | Type              | Label    | Description |
|--------------|-------------------|----------|-------------|
| -----        | ----              | -----    | -----       |
| uuid         | [string](#string) |          |             |
| serialNumber | [string](#string) | repeated |             |
| locationId   | [string](#string) |          |             |

## Scalar Value Types

| .proto Type                | Notes                                                                                                                                         | C++ | Java   | Python | Go     | C# | PHP     | Ruby |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|--------|--------|----|---------|------|
| -----                      | -----                                                                                                                                         | --- | ----   | -----  | --     | -- | ---     | ---- |
| <a name="double" /> double |                                                                                                                                               |     | double |        | double |    | float   |      |
| <a name="float" /> float   |                                                                                                                                               |     | float  |        | float  |    | float32 |      |
| Float                      |                                                                                                                                               |     |        |        |        |    |         |      |
| <a name="int32" /> int32   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. |     | int32  |        | int    |    | integer |      |

```

required) |
| <a name="int64" /> int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field
is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum
or Fixnum (as required) |
| <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string
| Bignum or Fixnum (as required) |
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int32s. | int32 | int | int | int32 | int | integer
| Bignum or Fixnum (as required) |
| <a name="sint64" /> sint64 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass
|
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String |
str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

```

```

package cwztpsvc

```

```

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    math "math"
)

```

```

// Reference imports to suppress errors if they are not otherwise used.

```

```

var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

```

```

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

```

```

type ZtpLicenseDeviceV2 struct {

```

```

Uuid          string  `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
SerialNumber   []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
LocationId     string  `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
XXX_NoUnkeyedLiteral
struct{} `json:"- "`
XXX_unrecognized []byte  `json:"- "`
XXX_sizecache    int32   `json:"- "`
}

func (m *ZtpLicenseDeviceV2) Reset()      { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage() {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
    return fileDescriptor_187379be6b6c9b7c, []int{0}
}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var
xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
    if m != nil {
        return m.Uuid
    }
    return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
    if m != nil {
        return m.SerialNumber
    }
    return nil
}

```

```

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
    if m != nil {
        return m.LocationId
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
    proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

var fileDescriptor_187379be6b6c9b7c = []byte{
    // 219 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
    0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
    0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
    0x65,
    0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
    0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
    0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
    0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
    0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
    0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
    0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
    0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
    0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
    0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
    0x00, 0xff, 0xff, 0x66,
    0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}

// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

// Reference imports to suppress errors if they are not otherwise used.

```

```

var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicense struct {
    Id          int32  `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
    Status       string `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
    LastUpdated  int64  `protobuf:"varint,3,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
    XXX_NoUnkeyedLiteral
    struct{} `json:"- "`
    XXX_unrecognized []byte `json:"- "`
    XXX_sizecache    int32  `json:"- "`
}

func (m *ZtpLicense) Reset()      { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage() {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
    return fileDescriptor_4e24d0294ce39e81, []int{0}
}

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
    return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func
(m *ZtpLicense) GetId() int32 {
    if m != nil {

```

```

    return m.Id
}
return 0
}

func (m *ZtpLicense) GetStatus() string {
    if m != nil {
        return m.Status
    }
    return ""
}

func (m *ZtpLicense) GetLastUpdated() int64 {
    if m != nil {
        return m.LastUpdated
    }
    return 0
}

func init() {
    proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
    proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
    // 222 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
    0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
    0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
    0x9a, 0xa9, 0x85, 0xfe, 0x7a, 0x69, 0xb7, 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
    0xfb, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48,
    0x58, 0x5f, 0xc2, 0xfe,
    0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
    0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xfc, 0xc5, 0xf9, 0x92, 0xf2, 0xfb, 0x90, 0xad, 0x6f, 0x78, 0x15,
    0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
    0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
    0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xab, 0x5b, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
    0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
    0xb0, 0xe5, 0xab, 0x0f, 0xb4, 0xde, 0xf5, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0xf4, 0xbc, 0x9b, 0x7f,
    0xa8, 0x13, 0xe2, 0xe5, 0xf8, 0x83, 0xc7, 0x68, 0x92, 0x57, 0x23, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
    0xdf, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01, 0x00, 0x00,
}

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  - [ZtpLicense](#cwztpsvc-ZtpLicense)
- [Scalar Value Types](#scalar-value-types)

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## cw\_ztp\_license.proto

<a name="cwztpsvc-ZtpLicense"></a>

### ZtpLicense

| Field       | Type              | Label | Description |
|-------------|-------------------|-------|-------------|
| id          | [int32](#int32)   |       |             |
| status      | [string](#string) |       |             |
| lastUpdated | [int64](#int64)   |       |             |

## Scalar Value Types

| .proto Type                | Notes | C++    | Java   | Python | Go      | C#      | PHP    | Ruby  |
|----------------------------|-------|--------|--------|--------|---------|---------|--------|-------|
| <a name="double" /> double |       | double | double | double | float   | float64 | double | float |
| <a name="float" /> float   |       | float  | float  | float  | float32 | float   | float  | Float |

```

| <a name="int32" /> int32 | Uses variable-length encoding. Inefficient for encoding
negative numbers if your field is likely to have negative values, use sint32 instead. | int32 | int | int | int32 | int |
integer | Bignum or Fixnum (as required) |
| <a name="int64" /> int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field
is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum
or Fixnum (as required) |
| <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string
| Bignum or Fixnum (as required) |
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |
| <a name="sint64" /> sint64 | Uses variable-length encoding.
Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64
| long | integer/string | Bignum |
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII
text. | string | String | str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

```

```
package cwztpsvc
```

```

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

```

```
// Reference imports to suppress errors if they are not otherwise used.
```

```

var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

```

```

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.

```

```
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package
```

```

type ZtpLicenseDevice struct {
    DeviceSerialNumber string `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"``
    XXX_NoUnkeyedLiteral struct{} `json:"-``
    XXX_unrecognized []byte `json:"-``
    XXX_sizecache     int32  `json:"-``
}

func (m *ZtpLicenseDevice)
    Reset()      { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage() {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
    return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
    if m != nil {
        return m.DeviceSerialNumber
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {

```

```

proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

var fileDescriptor_4637a3ce942b5232 = []byte{
    // 201 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
    0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
    0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
    0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
    0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
    0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
    0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
    0xbc, 0x6c, 0x42,
    0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
    0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
    0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
    0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
    0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
    0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}

```

# 1.163 libnss-nisplus 2.31

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Version 2.1, February 1999

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## 1.167 golang 1.18.9

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## 1.169 cryptography 37.0.4

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## 1.176 spew 1.1.1

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## 1.177 rcrowley-go-metrics 0.0.0-

## 20201227073835-cf1acfcdf475

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# 1.181 packaging 21.2

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# 1.182 xxhash 2.1.2

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Ben Darnell  
Ben Davis  
Jon Dufresne  
Tim Graham  
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Max Grender-Jones  
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# 1.198 inotify 0.2.10

## 1.198.1 Available under license :

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# 1.199 python 3.8.2-0ubuntu2

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwil.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

## 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       |     |     |
| 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 |

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

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## 1.200 audit 2.8.5-2ubuntu6

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## 1.202 libnghttp2-14 1.40.0-1build1

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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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Upstream-Contact: heimdal@h5l.org

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

Files-Excluded: doc/doxyout

lib/wind/rfc3490.txt

lib/wind/rfc3491.txt

lib/wind/rfc4013.txt

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Upstream-Name: heimdal

Upstream-Contact: heimdal@h5l.org

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

Files-Excluded: doc/doxyout

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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 |
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Upstream-Name: heimdal

Upstream-Contact: heimdal@h5l.org

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

Files-Excluded: doc/doxyout

lib/wind/rfc3490.txt

lib/wind/rfc3491.txt

lib/wind/rfc4013.txt

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Upstream-Name: sqlite3

Source: <https://www.sqlite.org/cgi/src/dir?ci=trunk>

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Upstream-Name: heimdal

Upstream-Contact: heimdal@h5l.org

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

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# 1.216 iconv 2.31

## 1.216.1 Available under license :

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

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this

function must

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

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#### 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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Ty Coon, President of Vice

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Version 3, 29 June 2007

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stand

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years

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# 1.217 iputils 20190709-3

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hostname -- set the host name or show the host/domain name

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```

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\*/

/\* checkTag : validation tool for libzstd

\* command :

\* \$ ./checkTag tag

\* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}

\* The tag is then compared to zstd version number.

\* They are compatible if first 3 digits are identical.

\* Anything beyond that is free, and doesn't impact validation.

\* Example : tag v1.8.1.2 is compatible with version 1.8.1

\* When tag and version are not compatible, program exits with error code 1.

\* When they are compatible, it exists with a code 0.

\* checkTag is intended to be used in automated testing environment.

\*/

# 1.220 python-pip 20.0.2-5ubuntu1.6

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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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## A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
| 3.1.2 | 3.1   | 2010      | PSF | yes |
| 3.2   | 3.1   | 2010      | PSF | yes |

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

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

The hypothetical commands

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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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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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gfdl(7), fsf-funding(7).

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@end enumerate

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

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@end smallexample

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

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

```
@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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@c man end

```
=====
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Any

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6. Any

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@heading TERMS AND CONDITIONS

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@item

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

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@smallexample

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```
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Version 3, 29 June 2007

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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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```

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# 1.232 curl 7.68.0-1ubuntu2.13

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=====

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## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

## 1.233 perl 5.30.0-9ubuntu0.3

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## 1.234 python-pip 20.0.2

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

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- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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Python was created in the early 1990s by Guido van Rossum at Stichting 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.

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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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|-------|-------|------|-----|-----|
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
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| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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|-------|-------|-----------|-----|-----|
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
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| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
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| 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 |
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| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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Upstream-Name: heimdal

Upstream-Contact: heimdal@h5l.org

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

Files-Excluded: doc/doxyout

lib/wind/rfc3490.txt

lib/wind/rfc3491.txt

lib/wind/rfc4013.txt

lib/wind/rfc4518.txt

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```

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```
<program> Copyright (C) <year> <name of author>
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under certain conditions; type `show c' for details.
```

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Upstream source:  
<ftp.gnu.org/pub/gnu/readline/readline-4.3.tar.gz>.

Author: Per Bothner

Copyright:

```
/* A front-end using readline to "cook" input lines for Kawa.  
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*  
* Some code from Johnson & Troan: "Linux Application Development"  
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*/
```

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# 1.239 nghttp2 1.40.0-1build1

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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
Copyright (c) 2019 mruby developers
```

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## 1.240 systemd 245.4-4ubuntu3.15

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#####

## Constant-time SSSE3 AES core implementation.

## version 0.1

##

## By Mike Hamburg (Stanford University), 2009

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##

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

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```
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```

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DRuntime: Runtime Library for the D Programming Language

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ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)  
 svn://gcc.gnu.org/svn/gcc/ (for prereleases)  
 ftp://sourceware.org/pub/newlib/ (for newlib)  
 git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language      | Compiler package | Library package | Documentation    |
|---------------|------------------|-----------------|------------------|
| -----         |                  |                 |                  |
| Ada           |                  |                 |                  |
|               | gnat-9           | libgnat-9       | gnat-9-doc       |
| BRIG          | gccbrig-9        | libhsail-rt0    |                  |
| C             | gcc-9            |                 | gcc-9-doc        |
| C++           | g++-9            | libstdc++6      | libstdc++6-9-doc |
| D             | gdc-9            |                 |                  |
| Fortran 95    | gfortran-9       | libgfortran3    | gfortran-9-doc   |
| Go            | gccgo-9          | libgo0          |                  |
| Objective C   | gobjc-9          | libobjc2        |                  |
| Objective C++ | gobjc++-9        |                 |                  |
| Modula-2      | gm2-9            | libgm2          |                  |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources         | Development      | Debugging        | Position-Independent |
|----------|-----------------|------------------|------------------|----------------------|
| -----    |                 |                  |                  |                      |
| C++      |                 | libstdc++6-9-dbg | libstdc++6-9-pic |                      |
| D        | libphobos-9-dev |                  |                  |                      |

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4

    GCC intrinsics (platform-dependent)

gcc-9-base               Base files common to all compilers

gcc-9-soft-float        Software floating point (ARM only)

gcc-9-source            The sources with patches

Ada:

libgnatvsn-dev, libgnatvsn9 GNAT version library

C:

cpp-9, cpp-9-doc        GNU C Preprocessor

libssp0-dev, libssp0    GCC stack smashing protection library

libquadmath0           Math routines for the \_\_float128 type

fixincludes            Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library

libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-9 Ada support library and libgnatvsn library.
- Various config files  
in gcc/config/ used in runtime libraries.
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Developed by:

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Version 3.1, 31 March 2009

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Written by Tobias Burnus <burnus@net-b.de>

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- \* Cygnus Support, drepper@cygnus.com.

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D:  
gdc-9                      GNU D Compiler  
libphobos-9-dev            D standard runtime library

The D source package is made up of the following components.

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- d/\*

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Modified by Vincenzo Ampolo, Michael Parrot, Iain Buclaw, (C) 2009, 2010

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- d/dmd/\*

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The Zlib data compression library:

- d/phobos/etc/c/zlib/\*

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The Phobos standard runtime library:

- d/phobos/\*

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## 1.247 libpsl 0.21.0-1ubuntu1

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Gnomovision version 69, Copyright (C) year name of author  
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Ty Coon, President of Vice

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## 1.249 cdebconf 0.251ubuntu1

### 1.249.1 Available under license :

CDebConf was initially written by Randolph Chung <tausq@debian.org>

Other contributors include:

Anthony Towns <ajt@debian.org>  
David Whedon <dwhedon@gordian.com>  
Dan Jacobowitz <dan@debian.org>  
Tollef Fog Heen <tfheen@debian.org>  
Attilio Fiandrotti <fiandro@tiscali.it>  
Colin Watson <cjwatson@debian.org>  
Regis Boudin <regis@debian.org>

CDebConf includes ideas and code from:

debconf - The original, de facto, perl implementation  
(c) Joey Hess <joeyh@debian.org>  
apt - The Debian Advanced Package Tool  
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## 1.250 python-stdlib-extensions 3.8.10-0ubuntu1~20.04

### 1.250.1 Available under license :

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Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
No license file was found, but licenses were detected in source scan.
```

```
('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),
```

```
Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
No license file was found, but licenses were detected in source scan.
```

executable.

```
Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
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```

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```
*****/
```

```
Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c
No license file was found, but licenses were detected in source scan.
```

```
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```

```
# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.
```

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)\*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '=' ] ( STRING [Repeater]  
| NAME [Details] [Repeater]  
| '(' Alternatives ')' [Repeater]  
| '[' Alternatives ']'  
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '\*' | '+' | '{' NUMBER [, NUMBER] '}'

Details: '<' Alternatives '>'

Found in path(s):

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt  
\*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt  
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Found in path(s):

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py  
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Found in path(s):

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pygram.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_print.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_apply.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer\_base.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_long.py

```

*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
No license file was found, but licenses were detected in source scan.

```

```

file.write('License: %s\n' % self.get_license())

```

Found in path(s):

- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py

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# version.

Found in path(s):

- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist\_wininst.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist\_msi.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist\_msi.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist\_wininst.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist\_msi.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist\_wininst.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwinccompiler.py
- \*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwinccompiler.py

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Found in path(s):

- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_standarderror.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_map.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_xrange.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_xrange.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_buffer.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_dict.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_buffer.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_dict.py
- \*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_standarderror.py

- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_standarderror.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_xrange.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_map.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_types.py

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py
No license file was found, but licenses were detected in source scan.
```

# All rights reserved.

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py
```

# 1.251 libseccomp 2.5.1-1ubuntu1~20.04.2

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Version 2.1, February 1999

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## 1.252 base-files 11ubuntu5.6

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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<signature of Ty Coon>, 1 April 1989  
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## 1.257 zlib 1.2.11.dfsg-2ubuntu1.2

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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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

# 1.258 sensible-utils 0.0.12+nmu1

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Upstream-Name: sensible-utils

Upstream-Contact: Anibal Monsalve Salazar <[anibal@debian.org](mailto:anibal@debian.org)>

Source: <https://alioth.debian.org/projects/collab-maint/sensible-utils.git>

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#### CAST128

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#### DES

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#### MD2

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#### SHA224, SHA256, SHA384, and SHA512

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#### TWOFISH

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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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| 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                 |
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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 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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GSS-API mechglue layer.

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

@end table



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Fortuna in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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

@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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@heading Richard Outerbridge

DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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lib/hcrypto/test\_dh.c

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## 1.265 pcre 8.39-12build1

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This is Debian GNU/Linux's prepackaged version of the PCRE regular expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from ftp.csx.cam.ac.uk/pub/software/programming/pcre.

PCRE LICENCE

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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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.

## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel

Email local part: ph10

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## THE C++ WRAPPER FUNCTIONS

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## 1.266 libtasn 4.16.0-2

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# 1.268 pcre 10.34-7

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## THE BASIC LIBRARY FUNCTIONS

-----

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

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## 1.269 tdb 1.45.5

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\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

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- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions

- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
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- \* Added abstraction for granular control of request fields
  
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- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<https://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <<https://github.com/jschneier>>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage



- \* Tahia Khan <<http://tahia.tk/>>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <<https://grunseid.com>>
- \* source\_address support and tests (with <https://github.com/bui>)
  
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- \* Add ability to pass socket options to an HTTP Connection
  
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- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto:ttomecek@redhat.com)>
- \* Implemented generator for getting chunks from chunked responses.
  
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- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <<https://github.com/talos>>
- \* Clues to debugging problems with `cryptography` dependency in docs

- \* Disassem <<https://github.com/Disassem>>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <[jlatherfold@hotmail.com](mailto:jlatherfold@hotmail.com)>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <<https://github.com/chripede>>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <<https://github.com/jmoldow>>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
- \* Bugfix to ca\_cert file paths.
  
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- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
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- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>

- \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
- 
- \* Nate Prewitt <nate.prewitt@gmail.com>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
- 
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
- 
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
- 
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
- 
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- 
- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
- 
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
- 
- \* Erik Rose <erik@mozilla.com>
  - \* Bugfix to pyopenssl vendoring
- 
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
- 
- \* Mike Miller <github@mikeage.net>
  - \* Logging improvements to include the HTTP(S) port when opening a new connection
- 
- \* Ioannis Tziakos <mail@itziakos.gr>
  - \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
  - \* Update appveyor tox setup to use the 64bit python.
- 
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
  - \* Ongoing maintenance; 2017-2018
- 
- \* Dominique Leuenberger <dimstar@opensuse.org>
  - \* Minor fixes in the test suite
- 
- \* Will Bond <will@wbond.net>

- \* Add Python 2.6 support to ``contrib.securetransport``
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  - \* using auth info for socks proxy
- \* Chris Wilcox <git@crwilcox.com>
  - \* Improve contribution guide
  - \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- \* Bruce Merry <https://www.brucemerry.org.za>
  - \* Fix leaking exceptions when system calls are interrupted with zero timeout
- \* Hugo van Kemenade <https://github.com/hugovk>
  - \* Drop support for EOL Python 2.6
- \* Tim Bell <https://github.com/timb07>
  - \* Bugfix for responses with Content-Type: message/\* logging warnings
- \* Justin Bramley <https://github.com/jbramleycl>
  - \* Add ability to handle multiple Content-Encodings
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  - \* Remove Authorization header regardless of case when redirecting to cross-site
- \* James Meickle <https://permadeath.com/>
  - \* Improve handling of Retry-After header
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
  - \* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
- \* [Your name or handle] <[email or website]>
  - \* [Brief summary of your changes]

# 1.276 perl 5.30.0-9ubuntu0.2

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```
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# of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0 1993/08/18 12:04:35 ram
# Baseline for dist 3.0 netwide release.
#
```

```
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order. It will complain and die if not. NOTE: It will still produce
# a compilable output file, even with errors, so you must check the output.
```

# 1.277 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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## 1.280 zlib 1.2.11.dfsg-2ubuntu1.5

### 1.280.1 Available under license :

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```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
```

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

```
/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
```

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```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
```

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

Not copyrighted -- provided to the public domain

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html

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/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).



---

## Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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# For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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```
/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
```

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```
/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
```

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

```
/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012
```

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```
Mark Adler  madler@alumni.caltech.edu
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
```

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

```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
```

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

```
/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
```

```
/* 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).

```
*/
```

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

/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support

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For more info read MiniZip\_info.txt

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-----

Changes

See header of zip.h

\*/

Found in path(s):

\* /zlib-1.2.11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

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/\*

\* gzlog.c

\* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved  
\* For conditions of distribution and use, see copyright notice in gzlog.h  
\* version 2.2, 14 Aug 2012  
\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

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/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

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## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. 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).

All functions of the compression library are documented in the file zlib.h (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example

of the library is given in the file test/example.c which also tests that the library is working correctly. Another example is given in the file test/minizip.c. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in win32/ or contrib/vstudio/. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com), is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

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```
/* fitblk.c: example of fitting compressed output to a specified size
   Not copyrighted -- provided to the public domain
   Version 1.1 25 November 2004 Mark Adler */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

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

```
/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

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

```
/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
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*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h

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

```
/* 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).

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

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

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

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

/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein  
No license file was found, but licenses were detected in source scan.

```
/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):  
\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h  
No license file was found, but licenses were detected in source scan.

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):  
\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c  
No license file was found, but licenses were detected in source scan.

```
/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):  
\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c  
No license file was found, but licenses were detected in source scan.

```
/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):  
\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c  
No license file was found, but licenses were detected in source scan.

```
/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):  
\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c  
No license file was found, but licenses were detected in source scan.

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
```

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

```
/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
```

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

```
/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
```

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
```

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

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
```

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

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

-----

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

## Background

-----  
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

## Changed from MiniZip 1.0 to MiniZip 1.1

- 
- \* Added ZIP64 support for unzip ( by Even Rouault )
  - \* Added ZIP64 support for zip ( by Mathias Svensson )
  - \* Reverted some changed that Even Rouault did.
  - \* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
  - \* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
  - \* Added BZIP Compress method for zip
  - \* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>  
Zip File specification

## Notes.

- \* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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-----  
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-----

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

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

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

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

/\* gzclose.c -- zlib gzclose() function

\* Copyright (C) 2004, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

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

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64  
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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-----  
Changes

See header of unzip64.c

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

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

/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

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

```
/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

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

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

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

```
/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

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

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

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

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

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

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

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

/\* gzappend -- command to append to a gzip file

Copyright (C) 2003, 2012 Mark Adler, all rights reserved

version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

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

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)



1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/> .

3. Where can I get a Visual Basic interface to zlib?

See

- \* <http://marknelson.us/1997/01/01/zlib-engine/>
- \* win32/DLL\_FAQ.txt in the zlib distribution

4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.  
Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org) . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed.  
Before going to the trouble of compiling a shared version of zlib and

trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` `#defines` in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z\_FULL\_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z\_FULL\_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work  
with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm.total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want

a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/> .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/> , which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more

efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

## 1.281 bash 5.0-6ubuntu1.1



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## 1.282 gnutls 3.6.13-2ubuntu1.7

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section 10  
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#####

## Constant-time SSSE3 AES core implementation.

## version 0.1

##

## By Mike Hamburg (Stanford University), 2009

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##

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

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Fortuna in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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

@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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@heading Richard Outerbridge

DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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lib/hcrypto/test\_dh.c

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-- Tom St Denis

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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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| 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)                 |
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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                     |
| 2.1.3          | 2.1.2           | 2002      | PSF        | yes                     |
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## 1.287 sh 1.14.3

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## 1.288 vixie-cron 3.0pl1-136ubuntu1

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* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/

```

Found in path(s):

```

* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c

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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"

```

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```

*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5

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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"

```

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*/
```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:  
make all

su and say:  
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):  
\* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL

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```
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# * user.
# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0  
December 27, 1993  
[V2.2 was some time in 1992]  
[V2.1 was May 29, 1991]  
[V2.0 was July 5, 1990]  
[V2.0-beta  
was December 9, 1988]  
[V1.0 was May 6, 1987]  
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

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\* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README

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```
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.\" WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

Found in path(s):

\* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3

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*
* @(#)bitstring.h 5.2
* (Berkeley) 4/4/90
*/
```

Found in path(s):

\* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h

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```
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```

```

* anyone resulting from the use of this software rests entirely with the
* user.
*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/

```

Found in path(s):

```

* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h

```

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```

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.\" * user.
.\" *
.\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

```

Found in path(s):

```

*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1

```

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```

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# * Distribute freely, except: don't remove my name from the source or

```

Found in path(s):

```

* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile

```

# 1.289 libxheimdal 7.7.0+dfsg-1ubuntu1.2

## 1.289.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: heimdal

Upstream-Contact: heimdal@h5l.org

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

Files-Excluded: doc/doxyout

lib/wind/rfc3490.txt

lib/wind/rfc3491.txt

lib/wind/rfc4013.txt

lib/wind/rfc4518.txt

Files: \*

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Files:

lib/wind/rfc3454.txt

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

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

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

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=====

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

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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

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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)             |
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| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
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Source: [git://anonscm.debian.org/collab-maint/mime-support.git](https://anonscm.debian.org/collab-maint/mime-support.git)

Files: \*

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Files: mailcap.man

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# 1.297 libcrypt 4.4.10-10ubuntu4

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*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
*
```

```
/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h
```

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 \*/

Found in path(s):

\* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c  
 \*  
 /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c  
 \* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do\_command.c

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

/\*  
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 \*  
 \*/

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/\*



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* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
*
* @(#)bitstring.h 5.2
(Berkeley) 4/4/90
*/

```

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h
```

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.\" *
.\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"

```

Found in path(s):

```
*
```

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8

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.\" THIS SOFTWARE IS PROVIDED ``AS IS\" AND WITHOUT ANY EXPRESS OR
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.\" WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

Found in path(s):

\* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.3

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```
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```

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.\" *
```

```

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.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

```

Found in path(s):

\*

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```

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```

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* I'll try to keep a version up to date. I can be reached as follows:
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*/

```

```

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

```

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is

where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:  
make all

su and say:  
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

\* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL

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./" *
./" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
./" * I'll try to keep a version up to date. I can be reached as follows:
./" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
./" */
./"
./" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
./"
```

Found in path(s):

\*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5

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```
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# * anyone resulting from the use of this software rests entirely with the
```

```
# * user.  
# *  
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and  
# * I'll try to keep a version up to date. I can be reached as follows:  
# * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul  
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)  
kill your existing cron process  
(actually you can run your existing cron if you want, but why?)  
build new crontabs using /usr/lib/{crontab,crontab.local}  
(either put them all in "root"'s crontab, or divide it up  
and rip out all the 'su' commands, collapse the lengthy  
lists into  
ranges with steps -- basically, this step is  
as much work as you want to make it)  
start up the new cron  
(must be done as root)  
watch it. test it with 'crontab -r' and watch the daemon track your  
changes.  
if you like it, change your /etc/{rc,rc.local} to use it instead of  
the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

\* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

# 1.299 keyutils 1.6-6ubuntu1.1

## 1.299.1 Available under license :

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Version 2, June 1991

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## 1.311 diffutils 3.7-3

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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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\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Because of this blurred distinction, using the ordinary General

Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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The End

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Upstream-Name: urllib3

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Source: <https://pypi.org/project/urllib3/>

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\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

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\* Bugfixes, suggestions, Requests integration

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\* Python 3 support

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- \* studer <theo.studer@gmail.com>
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- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
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- \* Added abstraction for granular control of request fields
  
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- \* Support for non-ASCII header parameters



- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
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- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes

- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter

- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.

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

regardless of case when redirecting to cross-site

\* James Meickle <<https://permadeath.com/>>

\* Improve handling of Retry-After header

\* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>

\* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.

\* [Your name or handle] <[email or website]>

\* [Brief summary of your changes]

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## 1.323 libxcrypt 4.4.10-10ubuntu4

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# 1.324 gzip 1.10-0ubuntu4

## 1.324.1 Available under license :

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<ftp://ftp.gnu.org/gnu/gzip/>

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## 1.326 zlib 1:1.2.11.dfsg-2ubuntu1.5

### 1.326.1 Available under license :

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```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
 * Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 * Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

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

```
/* gzwrite.c -- zlib functions for writing gzip files
 * Copyright (C) 2004-2017 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

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```
/* zconf.h -- configuration of the zlib compression library
 * Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

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```
/* inffast.h -- header to use inffast.c
```

```
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```
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```

\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html

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/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

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See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from

Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----

### Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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\*/

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\* /zlib-1.2.11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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\* /zlib-1.2.11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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/\* inflate.c -- zlib decompression

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\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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/\* inflate.c -- inflate using a call-back interface

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/\* gzlog.h

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version 2.2, 14 Aug 2012

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\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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/\* uncompr.c -- decompress a memory buffer

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\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

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/\* inflate.h -- internal inflate state definition

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/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

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Modifications for Zip64 support

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For more info read MiniZip\_info.txt

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Changes

See header of zip.h

\*/

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/\*

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\* version 2.2, 14 Aug 2012

\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

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

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. 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).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `"make install"` should work

for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>

.

A Perl interface to zlib written by Paul Marquess <[pmqs@cpan.org](mailto:pmqs@cpan.org)> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <[amk@amk.ca](mailto:amk@amk.ca)> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <[info@winimage.com](mailto:info@winimage.com)>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see `win32/DLL_FAQ.txt`
- For 64-bit Irix, `deflate.c` must be compiled without any optimization. With `-O`, one `libpng` test fails. The test works in 32 bit mode (with the `-n32` compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option `-std1` is necessary to get `gzprintf` working correctly. This is done by `configure`.
- zlib doesn't work on HP-UX 9.05 with some versions of `/bin/cc`. It works with other compilers. Use "make test" to check your compiler.
- `gzdopen` is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

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

/\* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

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

/\* gzread.c -- zlib functions for reading gzip files

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

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

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

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

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

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

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

/\* inftrees.h -- header to use inftrees.c

\* Copyright (C) 1995-2005, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h

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

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

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

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

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

/\* minigzip.c -- simulate gzip using the zlib compression library

\* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

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

/\* gzlib.c -- zlib functions common to reading and writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

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

/\* infcover.c -- test zlib's inflate routines with full code coverage

\* Copyright (C) 2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

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



```
/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.c
```

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

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
```

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

```
/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
```

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

```
/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
```

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
```

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

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
```

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

## Introduction

-----  
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

## Background

-----  
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c  
some refactoring and code cleanup was also done.

## Changed from MiniZip 1.0 to MiniZip 1.1

- 
- \* Added ZIP64 support for unzip ( by Even Rouault )
  - \* Added ZIP64 support for zip ( by Mathias Svensson )
  - \* Reverted some changed that Even Rouault did.
  - \* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
  - \* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
  - \* Added BZIP Compress method for zip
  - \* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>

Zip File specification

Notes.

\* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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-----  
Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

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

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

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

/\* gzclose.c -- zlib gzclose() function

\* Copyright (C) 2004, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

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

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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-----  
Changes

See header of unzip64.c

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

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

```
/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.1 29 Sep 2012 Mark Adler */
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
```

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

```
/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
```

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

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
```

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

```
/* Adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
```

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

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

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

/\* gzguts.h -- zlib internal header definitions for gz\* operations

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

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

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

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/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /zlib-1.2.11.dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

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

## Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

### 3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* win32/DLL\_FAQ.txt in the zlib distribution

### 4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference

("as any"), not by value ("as long").

### 5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

### 6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h` . Examples of `zlib` usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/` .

7. Why don't you use GNU `autoconf` or `libtool` or ...?

Because we would like to keep `zlib` as a very small and simple package. `zlib` is rather portable and doesn't need much configuration.

8. I found a bug in `zlib`.

Most of the time, such problems are due to an incorrect usage of `zlib`. Please try to reproduce the problem with a small program and send the corresponding source to us at `zlib@gzip.org` . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to `gzputc`"?

If "`make test`" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "`make install`".

10. I need a Delphi interface to `zlib`.

See the `contrib/delphi` directory in the `zlib` distribution.

11. Can `zlib` handle `.zip` archives?

Not by itself, no. See the directory `contrib/minizip` in the `zlib` distribution.

12.

Can `zlib` handle `.Z` files?

No, sorry. You have to spawn an `uncompress` or `gunzip` subprocess, or adapt the code of `uncompress` on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```



14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` `#defines` in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along

with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's `contrib/blast` directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work  
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total\_in and strm.total\_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

# 1.327 gmp 6.2.0+dfsg-4ubuntu0.1

## 1.327.1 Available under license :

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## 1.328 pcre 8.39-12ubuntu0.1

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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

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## 1.329 gogo-protobuf 1.3.2

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Written by: Philip Hazel  
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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<br>from | Year | Owner | GPL-<br>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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## A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
| 3.1.2 | 3.1   | 2010      | PSF | yes |
| 3.2   | 3.1   | 2010      | PSF | yes |

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