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# 1.1 libjpeg 6b

## 1.1.1 Notifications :

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## 1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998  
=====

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net) to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

### DOCUMENTATION

#### ROADMAP

=====  
This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES     Where to learn more about JPEG.  
ARCHIVE LOCATIONS    Where to find newer versions of this software.  
RELATED SOFTWARE    Other stuff you should get.  
FILE FORMAT WARS    Software \*not\* to get.  
TO DO            Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc    How to configure and install the IJG software.  
usage.doc     Usage instructions for cjpeg, djpeg, jpegtran,  
              rdjpgcom, and wrjpgcom.  
\*.1            Unix-style man pages for programs (same info as usage.doc).  
wizard.doc    Advanced usage instructions for JPEG wizards only.  
change.log    Version-to-version change highlights.

Programmer and internal  
documentation:

libjpeg.doc   How to use the JPEG library in your own programs.  
example.c     Sample code for calling the JPEG library.  
structure.doc  Overview of the JPEG library's internal structure.  
filelist.doc   Road map of IJG files.  
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the

hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright

by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

## REFERENCES

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We

highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides

good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The

JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.)

In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still

Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department

C-Cube Microsystems, Inc.

1778 McCarthy Blvd.

Milpitas, CA 95035

phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at

<ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text

version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory <graphics/jpeg>. This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto:help@uunet.uu.net) for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net> release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups <comp.graphics.misc>, <news.answers>, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other <news.answers> archive sites, including the official <news.answers> archive at <rtfm.mit.edu>: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
send <usenet/news.answers/jpeg-faq/part1>  
send <usenet/news.answers/jpeg-faq/part2>

## RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,

notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>.

Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical

advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

## 1.2 golang-protobuf-extensions 1.0.1

### 1.2.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

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## 1.5 giflib 5.2.1

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## 1.6 python-certifi 2019.11.28

### 1.6.1 Available under license :

This package contains a modified version of ca-bundle.crt:

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

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

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

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

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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

# 1.7 distlib 0.3.0

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### A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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## 1.12 iputils 20190709-3

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```

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Fortuna in libhcrypto

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Camellia in libcrypto

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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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(GENie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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Secure Endpoints Inc

Windows support

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lib/hcrypto/test\_dh.c

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
```

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.\"  
.\" @(#)bitstring.3 5.1  
(Berkeley) 12/13/89  
.\"
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/bitstring.3
```

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```

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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

\*

/opt/cola/permits/1029757352\_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1

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*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/pathnames.h
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/externs.h
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.\*/
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

```
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.8
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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

\$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 `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.

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\*

\* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

\*/

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# \* 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):

\* /opt/cola/permits/1029757352\_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

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.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

Found in path(s):

\*

/opt/cola/permits/1029757352\_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5

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## 1.20 python-setuptools 45.2.0

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# 1.22 go-grpc-prometheus 1.2.1- 0.20191002090509-6af20e3a5340

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Paul Borman <borman@google.com>

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compiler/cpp/src/generate/t\_st\_generator.cc

compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h  
compiler/cpp/src/platform.h  
compiler/cpp/src/thrift.ll  
compiler/cpp/src/thrift.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
lib/csharp/src/Protocol/TMap.cs  
lib/csharp/src/Protocol/TMessage.cs  
lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
lib/csharp/src/Protocol/TSet.cs  
lib/csharp/src/Protocol/TStruct.cs  
lib/csharp/src/Protocol/TType.cs  
lib/csharp/src/Server/TServer.cs  
lib/csharp/src/Server/TSimpleServer.cs  
lib/csharp/src/Server/TThreadPoolServer.cs  
lib/csharp/src/TApplicationException.cs  
lib/csharp/src/Thrift.csproj  
lib/csharp/src/Thrift.sln  
lib/csharp/src/TProcessor.cs  
lib/csharp/src/Transport/TServerSocket.cs  
lib/csharp/src/Transport/TServerTransport.cs  
lib/csharp/src/Transport/TSocket.cs  
lib/csharp/src/Transport/TStreamTransport.cs  
lib/csharp/src/Transport/TTransport.cs  
lib/csharp/src/Transport/TTransportException.cs  
lib/csharp/src/Transport/TTransportFactory.cs  
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs  
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj  
lib/rb/lib/thrift.rb  
lib/st/README  
lib/st/thrift.st  
test/OptionalRequiredTest.cpp  
test/OptionalRequiredTest.thrift  
test/ThriftTest.thrift

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/\*

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```
set yrange [0:]  
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024  
set xtics rotate by -45  
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## 1.38 adduser 3.118ubuntu2

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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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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## 1.45 base-passwd 3.5.47

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

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```
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```

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## 1.47 xz 5.2.4-1ubuntu1

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```
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```

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

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Anthony Towns <ajt@debian.org>

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## 1.51 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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#

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#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

```
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
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Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
```

Rodolfo Carvalho <rhcavalho@gmail.com>

Russ Cox <rsc@golang.org>

Sebastien Binet <seb.binet@gmail.com>

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## 1.55 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 (deflate format) and rfc1952 (gzip format).

\*/

## 1.56 libyaml 0.2.5

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## 1.58 python3-asn1crypto 0.24.0

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## 1.59 idna 2.8

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Found in path(s):

```
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst
```

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"""

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

"""

```
import io, sys
from setuptools import setup
```

```
def main():
```

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

```

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

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

```

## 1.60 appdirs 1.4.3

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Any executables

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```
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```

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```
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```

```
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```

```
Ty Coon, President of Vice
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# 1.69 lib-pq 1.9.0

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```
// +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}
}

```

# 1.70 futures 3.1.1

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## 1.71 iconv 2.31

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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: 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):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0p11-orig-1-tar-gz/cron-3.0p11.orig/INSTALL
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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

\*/

Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c

\*

/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do\_command.c

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\*/

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\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/popen.c

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* IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
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*
* @(#)bitstring.h 5.2
  (Berkeley) 4/4/90
*/

```

Found in path(s):

```

* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h
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.\" * 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):

```

*
/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5
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```

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.\" *
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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

\*

```
/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1
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.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.3

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.\*/
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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\*

/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8

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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
##*/
```

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):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

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\*/

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\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h

\*

/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h

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## 1.73.1 Available under license :

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Version 2.1, February 1999

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## 1.75 diffutils 3.7-3

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## 1.76 mime-support 3.64ubuntu1

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## 1.81 sysv-init 2.96-2.1ubuntu1

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```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.87 x-text 0.3.3

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## 1.88 iconv 2.31

### 1.88.1 Available under license :

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Version 2, June 1991

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of

the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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section 10

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```
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## 1.94 sed 4.7 1

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## 1.96 e2fsprogs 1.45.5 2ubuntu1

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

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

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Index: tdbsa/tdb.c

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

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell           2005
- + Copyright (C) Andrew Tridgell           1999-2005

- + Copyright (C) Jeremy Allison 2000-2006
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Gadi Oxman, August 1995

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```
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```

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```
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```

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```
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```

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

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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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Version 2, June 1991

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```

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

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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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## 1.97 findutils 4.7.0 1ubuntu1

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## 1.98 ncurses 6.2 Ubuntu2

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## 1.101 coreutils 8.30 3ubuntu2

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# 1.102 grep 3.4 1

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

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## 1.108 python-setuptools 45.2.0-1

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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.

\*/

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## 1.114 libtasn 4.16.0-2

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package api

```
import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "regexp"  
    "testing"  
)
```

// Files in this package use a BSD-style license.

```
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved\.)`)
```

```
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```

```
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```

```
`
```

```
const prefix = "// Copyright"
```

// A few files have to be skipped.

```
var skip = map[string]bool{
```

```
    "tools.go": true, // This file requires another comment above the license.
```

```
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
```

```
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
```

```
}
```

// This test validates that all go files in the repo start with an appropriate license.

```
func TestLicense(t
```

```
    *testing.T) {
```

```
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
```

```
        if skip[path] {
```

```
            return nil
```

```
        }
```

```

if err != nil {
    return err
}

if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil
})
if err != nil {
    t.Fatal(err)
}
}

```

## 1.116 gosqlite 1.14.6

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## 1.119 xorg-randr 6.8.2

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```

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Ty Coon, President of Vice
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Julian Seward, Cambridge, UK.  
jseward@acm.org  
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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## 1.128 jsonpath-ng 1.4.3

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```
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```

```
*
```

```
/opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath_ng/ext/parser.py
```

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Metadata-Version: 1.1

Name: jsonpath-ng

Version: 1.4.3

Summary: A final implementation of JSONPath for Python that aims to be standard compliant, including arithmetic and binary comparison operators and providing clear AST for metaprogramming.

Home-page: <https://github.com/h2non/jsonpath-ng>

Author: Tomas Aparicio

Author-email: [tomas@aparicio.me](mailto:tomas@aparicio.me)

License: Apache 2.0

Description: Python JSONPath Next-Generation |[Build Status](#)| [PyPI](#)| [Coverage Status](#)|

```
=====
```

A final implementation of JSONPath for Python that aims to be standard compliant, including arithmetic and binary comparison operators, as defined in the original `JSONPath proposal`\_.

This packages merges both `jsonpath-rw`\_ and `jsonpath-rw-ext`\_ and provides several AST API enhancements, such as the ability to update or removes nodes in the tree.

About

```
-----
```

This library provides a robust and significantly extended implementation of JSONPath for Python. It is tested with CPython 2.6, 2.7 & 3.x.

This library differs from other JSONPath implementations in that it is a full *language* implementation, meaning the JSONPath expressions are first class objects, easy to analyze, transform, parse, print, and extend.

Quick Start

```
-----
```

To install, use pip:

```
.. code:: bash
```

```
$ pip install --upgrade jsonpath-ng
```

Usage

```
-----
```



Basic examples:

.. code:: python

```
$ python
```

```
>>> from jsonpath_ng import jsonpath, parse
```

```
# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
```

```
>>> jsonpath_expr = parse('foo[*].baz')
```

```
# Extracting values is easy
```

```
>>> [match.value for match in jsonpath_expr.find({'foo': [{'baz': 1}, {'baz': 2}]})]
[1, 2]
```

```
# Matches remember where they came from
```

```
>>> [str(match.full_path) for match in jsonpath_expr.find({'foo': [{'baz': 1}, {'baz': 2}]})]
['foo.[0].baz', 'foo.[1].baz']
```

```
# And this can be useful for automatically providing ids for bits of data that do not have them (currently a
global switch)
```

```
>>> jsonpath.auto_id_field = 'id'
```

```
>>> [match.value for match in parse('foo[*].id').find({'foo': [{'id': 'bizzle'}, {'baz': 3}]})]
['foo.bizzle', 'foo.[1]']
```

```
# A handy extension: named operators like `parent`
```

```
>>> [match.value for match in parse('a.*.b.`parent`.c').find({'a': {'x': {'b': 1, 'c': 'number one'}}, 'y': {'b': 2, 'c':
'number two'}})]
['number two', 'number one']
```

```
# You can also build expressions directly quite easily
```

```
>>> from jsonpath_ng.jsonpath import Fields
```

```
>>> from jsonpath_ng.jsonpath import Slice
```

```
>>> jsonpath_expr_direct = Fields('foo').child(Slice('*')).child(Fields('baz')) # This is equivalent
```

Using the extended parser:

.. code:: python

```
$ python
```

```
>>> from jsonpath_ng.ext import parse
```

```
# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
```

```
>>> jsonpath_expr = parse('foo[*].baz')
```

### JSONPath Syntax

-----

The JSONPath syntax supported by this library includes some additional features and omits some problematic features (those that make it unportable). In particular, some new operators such as ``|`` and ``where`` are available, and parentheses are used for grouping not for

callbacks into Python, since with these changes the language is not trivially associative. Also, fields may be quoted whether or not they are contained in brackets.

Atomic expressions:

Syntax	Meaning
``\$``	The root object
``this``	The "current" object.
``foo``	More generally, this syntax allows "named operators" to extend JSONPath in arbitrary ways
*field*	Specified field(s), described below
``[*field*]``	Same as *field*
``[*idx*]``	Array access, described below (this is always unambiguous with field access)

Jsonpath operators:

Syntax	Meaning
*jsonpath1* ``.`` *jsonpath2*	All nodes matched by *jsonpath2* starting at any node matching *jsonpath1*
*jsonpath* ``[*whatever*]``	Same as *jsonpath* \ ``.`` *whatever*

*jsonpath1* ``..`` *jsonpath2*   All nodes matched by *jsonpath2* that descend from any node matching *jsonpath1*
*jsonpath1* ``where`` *jsonpath2*   Any nodes matching *jsonpath1* with a child matching *jsonpath2*
*jsonpath1* `` `` *jsonpath2*   Any nodes matching the union of *jsonpath1* and *jsonpath2*

Field specifiers ( \*field\* ):

Syntax	Meaning
``fieldname``	the field ``fieldname`` (from the "current" object)
``"fieldname"``	same as above, for allowing special characters in the fieldname
``'fieldname'``	ditto
``*``	any field
*field* `` `` *field*	either of the named fields (you can always build equivalent jsonpath using `` ``)

Array specifiers ( \*idx\* ):

Syntax	Meaning
``[`` *n* ``]``	array index (may be comma-separated list)
``[`` *start* ``?`` *end* ``]``	array slicing (note that *step* is unimplemented only due to lack of need thus far)
``[*]``	any array index

Programmatic JSONPath

If you are programming in Python and would like a more robust way to create JSONPath expressions that does not depend on a parser, it is very

easy to do so directly, and here are some examples:

- ``Root()``
- ``Slice(start=0, end=None, step=None)``
- ``Fields('foo', 'bar')``
- ``Index(42)``
- ``Child(Fields('foo'), Index(42))``
- ``Where(Slice(), Fields('subfield'))``
- ``Descendants(jsonpath, jsonpath)``

### Extras

-----

- *\*Path data\**: The result of ``JsonPath.find`` provide detailed context and path data so it is easy to traverse to parent objects, print full paths to pieces of data, and generate automatic ids.
- *\*Automatic Ids\**: If you set ``jsonpath\_ng.auto\_id\_field`` to a value other than None, then for any piece of data missing that field, it will be replaced by the JSONPath to it, giving automatic unique ids to any

piece of data. These ids will take into account any ids

already present as well.

- *\*Named operators\**: Instead of using ``@`` to reference the currently object, this library uses ``this``. In general, any string contained in backquotes can be made to be a new operator, currently by extending the library.

### Extensions

-----

name	Example
len	``\$.objects.len``
sub	``\$.field.sub(/foo\\ +(.*)/, \\ 1)``
split	``\$.field.split(+, 2, -1)``
	``\$.field.split(sep, segment, maxsplit)``
sorted	``\$.objects.sorted``
	``\$.objects[\\some_field]``
	``\$.objects[\\some_field,/other_field]``
filter	``\$.objects[?(@some_field > 5)]``

```
| - $.objects[?some_field = "foobar"]) |
| - $.objects[?some_field > 5 & other < 2)] |
+-----+
| arithmetic | - $.foo + "_" + $.bar |
| (-+*/) | - $.foo * 12 |
| | - $.objects[*].cow + $.objects[*].cat |
+-----+
```

### About arithmetic and string

-----

Operations are done with python operators and allows types that python allows, and return [] if the operation can be done due to incompatible types.

When operators are used, a jsonpath must be fully defined otherwise jsonpath-rw-ext can't know if the expression is a string or a jsonpath field, in this case it will choose string as type.

Example with data::

```
{
  'cow': 'foo',
  'fish': 'bar'
}
```

```
| **cow + fish** returns **cowfish**
| **$.cow + $.fish** returns **foobar**
| **$.cow + "_" + $.fish** returns **foo_bar**
| **$.cow + "_" + fish** returns **foo_fish**
```

### About arithmetic and list

-----

Arithmetic can be used against two lists if they have the same size.

Example with data::

```
{'objects': [
  {'cow': 2, 'cat': 3},
  {'cow': 4, 'cat': 6}
]}
```

```
| **$.objects[*].cow + $.objects[*].cat** returns **[6, 9]**
```

### More to explore

-----

There are way too many JSONPath implementations out there to discuss.

Some are robust, some are toy projects that still work fine, some are exercises. There will undoubtedly be many more. This one is made for use in released, maintained code, and in particular for programmatic access to the abstract syntax and extension. But JSONPath at its simplest just isn't that complicated, so you can probably use any of them successfully. Why not this one?

The original proposal, as far as I know:

- ``JSONPath - XPath for JSON`` <<http://goessner.net/articles/JSONPath/>>` \_\_ by Stefan Goessner.

Other examples

-----

Loading json data from file

.. code:: python

```
import json
d = json.loads('{"foo": [{"baz": 1}, {"baz": 2}]}')
# or
with open('myfile.json') as f:
    d = json.load(f)
```

Special note about PLY and docstrings

-----

The main parsing toolkit underlying this library, ``PLY`` <<https://github.com/dabeaz/ply>>` \_\_, does not work with docstrings removed. For example, ```PYTHONOPTIMIZE=2``` and ```python -OO``` will both cause a failure.

Contributors

-----

This package is authored and maintained by:

- ``Kenn Knowles`` <<https://github.com/kennknowles>>` \_\_  
(`^@kennknowles`` <<https://twitter.com/KennKnowles>>` \_\_)
- ``Tomas Aparicio`` <<https://github.com/h2non>>`

with the help

of patches submitted by ``these contributors`` <<https://github.com/kennknowles/python-jsonpath-ng/graphs/contributors>>` \_\_.

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.. `_JSONPath proposal``: <http://goessner.net/articles/JsonPath/>

.. `_jsonpath-rw``: <https://github.com/kennknowles/python-jsonpath-rw>

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Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

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\* /opt/cola/permits/1154776936\_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath\_ng.egg-info/PKG-INFO

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

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

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

All

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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## 1.132 cachecontrol 0.12.6

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## 1.133 urllib3 1.25.8

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# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests



\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <[me@kennethreitz.com](mailto:me@kennethreitz.com)>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test coverage

\* Thomas Kluyver <[thomas@kluyver.me.uk](mailto:thomas@kluyver.me.uk)>

\* Python 3 support

\* brandon-rhodes <<http://rhodesmill.org/brandon>>

\* Design review, bugfixes, test coverage.

\* studer <[theo.studer@gmail.com](mailto:theo.studer@gmail.com)>

\* IPv6 url support and test coverage

\* Shivaram Lingamneni <[slingamn@cs.stanford.edu](mailto:slingamn@cs.stanford.edu)>

\* Support for explicitly closing pooled connections

\* hartator <[hartator@gmail.com](mailto:hartator@gmail.com)>

\* Corrected multipart behavior for params

\* Thomas Weischuh <[thomas@t-8ch.de](mailto: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](mailto:mig@ibofobi.dk)>

\* Optional SNI-support for Python 2 via PyOpenSSL.

\* Marc Schlaich <[marc.schlaich@gmail.com](mailto:marc.schlaich@gmail.com)>

\* Various bugfixes and test improvements.

\* Bryce Boe <[bbzbryce@gmail.com](mailto:bbzbryce@gmail.com)>

\* Correct six.moves conflict

\* Fixed pickle support of some exceptions

\* Boris Figovsky <[boris.figovsky@ravello systems.com](mailto:boris.figovsky@ravello systems.com)>

\* Allowed to skip SSL hostname verification

\* Cory Benfield

<<https://lukasa.co.uk/about/>>

\* Stream method for Response objects.

- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)

- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.

- \* Christian Pedersen <<https://github.com/chripede>>
  - \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <<https://github.com/jmoldow>>
  - \* Fix low-level exceptions leaking from ```HTTPResponse.stream()```.
  - \* Bugfix for ```ConnectionPool.urlopen(release_conn=False)```.
  - \* Creation of ```HTTPConnectionPool.ResponseCls```.
  
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
  - \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
  - \* Bugfix to `ca_cert` file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
  - \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* 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](mailto:nate.prewitt@gmail.com)>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ```stream``` when `amt=None`.

- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
  - \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
  - \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
  - \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
  - \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
  - \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
  - \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
  - \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  - \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>

- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <<https://www.brucemerry.org.za>>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <<https://github.com/hugovk>>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <<https://github.com/timb07>>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <<https://github.com/jbramleycl>>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- \* Remove Authorization header  
regardless of case when redirecting to cross-site
  
- \* James Meickle <<https://permadeath.com/>>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.134 contextlib2 0.6.0

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=====

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
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3.3	3.2			
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## 1.138 python-requests 2.22.0

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# 1.139 ply 3.11

## 1.139.1 Available under license :

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# PLY (Python Lex-Yacc)                      Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.

If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

#### How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install  
ply using distutils.

The file doc/ply.html contains complete documentation on how to use  
the system.

The example directory contains several different examples including a  
PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should  
use the latest Python release if possible. It should work on just  
about any platform. PLY has been tested with both CPython and Jython.  
It also seems to work with IronPython.

#### Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent  
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and  
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown  
may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and  
relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

#### Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who  
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.  
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs  
and testing a revised LALR(1) implementation for PLY-2.0.

## Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

## Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----
# calc.py
#
# A simple calculator with variables.
# -----

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
)

# Tokens

t_PLUS = r'\+'
t_MINUS = r'\-'
t_TIMES = r'\*'
t_DIVIDE = r'\/'
t_EQUALS = r'='
t_LPAREN = r'\('
t_RPAREN = r'\)'
t_NAME = r'[a-zA-Z][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
```

```

r'\n+'
t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN
expression RPAREN'
    p[0] = p[2]

```



```

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

```

## Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page

at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

Found in path(s):

\* /opt/cola/permits/1160874329\_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/README.md

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```

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```

```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/ply/yacc.py
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```

Found in path(s):

```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/example/GardenSnake/GardenSnake.py
```

## 1.140 Jinja2 2.11.2

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)
```

```
setup(
```

```
    name="Jinja2",
```

```

version=version,
url="https://palletsprojects.com/p/jinja/",
project_urls={
    "Documentation": "https://jinja.palletsprojects.com/",
    "Code": "https://github.com/pallets/jinja",
    "Issue tracker": "https://github.com/pallets/jinja/issues",
},
license="BSD-3-Clause",
author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets",
maintainer_email="contact@palletsprojects.com",
description="A very fast and expressive template engine.",
long_description=readme,
classifiers=[
    "Development Status
:: 5 - Production/Stable",
    "Environment :: Web Environment",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
    "Programming Language :: Python :: 3.7",
    "Programming Language :: Python :: 3.8",
    "Programming Language :: Python :: Implementation :: CPython",
    "Programming Language :: Python :: Implementation :: PyPy",
    "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
    "Topic :: Software Development :: Libraries :: Python Modules",
    "Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

```

Found in path(s):

\* /opt/cola/permits/1160880513\_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py

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Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/jinja>

Project-URL: Issue tracker, <https://github.com/pallets/jinja/issues>

Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

## Installing

-----

Install and update using `pip`:

```
.. code-block:: text
```

```
$ pip install -U Jinja2
```

```
.. _pip:
```

<https://pip.pypa.io/en/stable/quickstart/>

## In A Nutshell

-----

```
.. code-block:: jinja
```

```
{% extends "base.html" %}  
{% block title %}Members{% endblock %}
```

```
{% block content %}
<ul>
{% for user in users %}
  <li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```

## Links

-----

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>
- Test status: [https://dev.azure.com/pallets/jinja/\\_build](https://dev.azure.com/pallets/jinja/_build)
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development

Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

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

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*, !=3.4.\*

Description-Content-Type:

text/x-rst

Provides-Extra: i18n

Found in path(s):

\* /opt/cola/permits/1160880513\_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

\* /opt/cola/permits/1160880513\_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-

# 1.141 supervisor 4.2.0

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bugfixes:

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

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## 1.144 pyserial 3.5

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py  
* /opt/cola/permits/1168963812_1622802919.99/0/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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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py  
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
```

extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py  
\*  
/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/\_\_init\_\_.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py  
\*  
/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/\_\_init\_\_.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py

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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-

extensions-3.8.2/3.6/Modules/\_tkinter.c

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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):

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt

\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt

\* /opt/cola/permits/1168963812\_1622802919.99/0/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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extensions-3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
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extensions-3.8.2/3.8/Lib/lib2to3/pygram.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
*
/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
*
/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
```

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py

\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/pytree\_idempotency.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_ne.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_has\_key.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_print.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_execfile.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_repr.py

\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer\_base.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_has\_key.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_apply.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test\_pytree.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_repr.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_apply.py

\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_long.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_exec.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test\_pytree.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_print.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_ne.py

\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/pytree\_idempotency.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*
/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
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```

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Found in path(s):

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
*
/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
*
/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
*
/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/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.
```

```
# version.
```

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

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwincompiler.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_msi.py
*
/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwincompiler.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwincompiler.py
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```

```
# All rights reserved.
```

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

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py
```

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executable.

Found in path(s):

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py

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```
file.write('License: %s\n' % self.get_license())
```

Found in path(s):

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py

# 1.146 markupsafe 2.0.1

## 1.146.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1173095378_1623434331.78/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-1-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/LICENSE.rst
```

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Found in path(s):

```
* /opt/cola/permits/1173095378_1623434331.78/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-1-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/setup.cfg
```

## 1.147 libnettle6 3.5.1+really3.5.1-2ubuntu0.2

### 1.147.1 Available under license :

```
/* nettle-internal.c
```

Things that are used only by the testsuite and benchmark, and not included in the library.

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: Nettle

Upstream-Contact: Niels Miller <nisse@lysator.liu.se>

Source: <http://www.lysator.liu.se/~nisse/nettle/>

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.

A list of the supported algorithms, their origins and licenses (from  
the manual):

.

#### AES

The implementation of the AES cipher (also known as rijndael) is  
written by Rafael Sevilla. Assembler for x86 by Rafael Sevilla and  
Niels Miller, Sparc assembler by Niels Miller. Released under the  
LGPL.

.

#### ARCFOUR

The implementation of the ARCFOUR (also  
known as RC4) cipher is  
written by Niels Miller. Released under the LGPL.

.

#### ARCTWO

The implementation of the ARCTWO (also known as RC2) cipher is  
written by Nikos Mavroyanopoulos and modified by Werner Koch and  
Simon Josefsson. Released under the LGPL.

.

#### BLOWFISH

The implementation of the BLOWFISH cipher is written by Werner  
Koch, copyright owned by the Free Software Foundation. Also hacked

by Simon Josefsson and Niels Miller. Released under the LGPL.

#### CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Miller. Assembler for x86 and x86\_64 by Niels Miller. Released under the LGPL.

#### CAST128

The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

#### DES

The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

#### MD2

The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Miller. Python Cryptography Toolkit license (essentially public domain).

#### MD4

This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

#### MD5

The implementation of the MD5 message digest is written by Colin Plumb. It has been hacked some more by Andrew Kuchling and Niels Miller. Released into the public domain.

#### SERPENT

The implementation of the SERPENT is based on the code in libgcrypt, copyright owned by the Free Software Foundation. Adapted to Nettle by Simon Josefsson and heavily modified by Niels Miller. Assembly for x86\_64 by Niels Miller. Released under the LGPL.

#### SHA1

The C implementation of the SHA1 message digest is written by Peter Gutmann, and hacked some more by Andrew Kuchling and Niels Miller. Released into the public domain. Assembler for x86 by Niels Miller, released under the LGPL.

#### SHA224, SHA256, SHA384, and SHA512

Written by Niels Miller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

## TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de Rooij. Released under the LGPL.

## RSA

Written by Niels Mller, released under the LGPL. Uses the GMP library for bignum operations.

## DSA

Written by Niels Mller, released under the LGPL. Uses the GMP library for bignum operations.

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Files: arctwo\*

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2004 Simon Josefsson

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Files: base64.h base64-meta.c

Copyright: 2002 Dan Egnor

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Files: blowfish.c

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2003 Free Software Foundation, Inc.

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Files: blowfish.h

Copyright: 1998, 2001 Free Software Foundation, Inc.

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1998, 2001 Niels Mller

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Files: camellia-table.c camellia-crypt-internal.c

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## 1.152 contextlib2 21.6.0

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

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

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

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

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2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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@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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Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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```

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

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# 1.156 librokenheimdal 7.7.0+dfsg-1ubuntu1

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```
@macro copynext{ }
```

```
@vskip 20pt plus 1fil
```

```
@end macro
```

```
@macro copyrightstart{ }
```

```
@end macro
```

```
@macro copyrightend{ }
```

```
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top
```

```
@comment node-name, next, previous, up
```

```
@appendix Copyrights and Licenses
```

```
@heading Kungliga Tekniska Hgskolan
```

```
@copyrightstart
```

```
@verbatim
```

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GSS-API mechglue layer.

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@item KCM credential cache.  
@item HDB LDAP backend.  
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Fortuna in libhcrypto

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Camellia in libhcrypto

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vis.c in libroken

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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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DES core in libcrypto

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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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lib/hcrypto/test\_dh.c

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
```

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@copyrightstart  
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AES in libhcrypto

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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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DES core in libcrypto

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D3DES (V5.09) -

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
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lib/hcrypto/test\_dh.c

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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

Files: \*

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.162 libxheimdal 7.7.0+dfsg-1ubuntu1

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@vskip 20pt plus 1fil  
@end macro
```

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@macro copyrightstart{  
@end macro
```

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@macro copyrightend{  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

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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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## 1.163 libheimbaseheimdal 7.7.0+dfsg-

### 1ubuntu1

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@macro copyrightend{ }

@end macro

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@comment node-name, next, previous, up

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@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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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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DES core in libcrypto

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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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@vskip 20pt plus 1fil
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@macro copyrightstart{ }
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@end macro
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@macro copyrightend{ }
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@end macro

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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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DES core in libcrypto

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D3DES (V5.09) -



A portable, public domain, version of the Data Encryption Standard.

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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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lib/hcrypto/test\_dh.c

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#####

## Constant-time SSSE3 AES core implementation.

## version 0.1

##

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##

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Version 3, 29 June 2007

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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

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openbsd-1-130-tar-gz/netcat-openbsd-1.130/atomicio.c

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openbsd-1-130-tar-gz/netcat-openbsd-1.130/netcat.c

# 1.168 pcre 10.34-7

## 1.168.1 Available under license :

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### THE BASIC LIBRARY FUNCTIONS

-----

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

University of Cambridge Computing Service,  
Cambridge, England.

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## 1.169 kerberos 1.17-6ubuntu4.1

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cmd/krb5/ipropl/ipropl_hdr.h
cmd/krb5/kadmin/server/ipropl_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
```

lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi\_err\_generic.et

lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et

kprop/kpropd\_rpc.c  
kprop/kproplog.c

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

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

In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations (now Zope  
Corporation, see <http://www.zope.com>). In 2001, the Python Software

Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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

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# 1.172 iotop 0.6-24-g733f3f8-1

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```

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```
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```

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## 1.174 procps 3.3.16-1ubuntu2.3

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```
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```

```
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# 1.175 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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## 1.176 distlib 0.3.3

### 1.176.1 Available under license :

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

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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=====

The Distutils2 project was started by Tarek Ziad and is currently  
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,  
and welcome into the Fellowship of the Packaging!

Thanks to:

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- Ali Afshar
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## 1.178 zipp 3.6.0

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# 1.179 tdb 1.45.5

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# 1.180 jinja2 3.0.2

## 1.180.1 Available under license :

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

```
[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://jinja.palletsprojects.com/
    Changes = https://jinja.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/jinja/
    Issue Tracker = https://github.com/pallets/jinja/issues/
```

Twitter = <https://twitter.com/PalletsTeam>  
Chat = <https://discord.gg/pallets>  
license = BSD-3-Clause  
license\_files = LICENSE.rst  
author = Armin Ronacher  
author\_email = armin.ronacher@active-4.com  
maintainer = Pallets  
maintainer\_email = contact@palletsprojects.com  
description = A very fast and expressive template engine.  
long\_description = file: README.rst  
long\_description\_content\_type = text/x-rst  
classifiers =  
Development Status :: 5 - Production/Stable  
Environment :: Web Environment  
Intended Audience :: Developers  
License :: OSI Approved ::  
BSD License  
Operating System :: OS Independent  
Programming Language :: Python  
Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Topic :: Text Processing :: Markup :: HTML

[options]

packages = find:  
package\_dir = = src  
include\_package\_data = true  
python\_requires = >= 3.6

[options.packages.find]

where = src

[options.entry\_points]

babel.extractors =  
jinja2 = jinja2.ext:babel\_extract[!18n]

[tool:pytest]

testpaths = tests  
filterwarnings =  
error  
ignore:The loop argument:DeprecationWarning:asyncio[.]base\_events:542

[coverage:run]

branch = True  
source =  
jinja2  
tests

[coverage:paths]

```
source =  
src  
*/site-packages
```

```
[flake8]  
select = B, E, F, W, B9, ISC  
ignore =  
E203  
E501  
E722  
W503  
max-line-length = 80  
per-file-ignores =  
src/jinja2/ __init__.py: F401
```

```
[mypy]  
files = src/jinja2  
python_version = 3.6  
disallow_subclassing_any = True  
disallow_untyped_calls = True  
disallow_untyped_defs = True  
disallow_incomplete_defs = True  
no_implicit_optional = True  
local_partial_types = True  
no_implicit_reexport  
= True  
strict_equality = True  
warn_redundant_casts = True  
warn_unused_configs = True  
warn_unused_ignores = True  
warn_return_any = True  
warn_unreachable = True
```

```
[mypy-jinja2.defaults]  
no_implicit_reexport = False
```

```
[mypy-markupsafe]  
no_implicit_reexport = False
```

```
[egg_info]  
tag_build =  
tag_date = 0
```

Found in path(s):

\* /opt/cola/permits/1210557185\_1633418177.62/0/jinja2-3-0-2-tar-gz/Jinja2-3.0.2/setup.cfg

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Metadata-Version: 2.1

Name: Jinja2

Version: 3.0.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Donate, <https://palletsprojects.com/donate>

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

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Project-URL: Source Code, <https://github.com/pallets/jinja/>

Project-URL: Issue Tracker, <https://github.com/pallets/jinja/issues/>

Project-URL: Twitter, <https://twitter.com/PalletsTeam>  
Project-URL: Chat, <https://discord.gg/pallets>  
Platform: UNKNOWN  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Environment :: Web Environment  
Classifier: Intended Audience :: Developers  
Classifier: License :: OSI Approved :: BSD License  
Classifier:  
Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=3.6  
Description-Content-Type: text/x-rst  
Provides-Extra: i18n  
License-File: LICENSE.rst

## Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- 
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

## Installing

-----

Install and update using `pip`:

```
.. code-block:: text
```

```
$ pip install -U Jinja2
```

```
.. _pip: https://pip.pypa.io/en/stable/getting-started/
```

In A Nutshell

-----

```
.. code-block:: jinja
```

```
{% extends "base.html" % }
{% block title % }Members{% endblock % }
{% block content % }
<ul>
  {% for user in users % }
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>
  {% endfor % }
</ul>
{% endblock % }
```

Donate

-----

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```
.. _please donate today: https://palletsprojects.com/donate
```

Links

-----

- Documentation: <https://jinja.palletsprojects.com/>
- Changes: <https://jinja.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/Jinja2/>
- Source Code: <https://github.com/pallets/jinja/>
- Issue Tracker: <https://github.com/pallets/jinja/issues/>
- Website: <https://palletsprojects.com/p/jinja/>
- Twitter: <https://twitter.com/PalletsTeam>

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Found in path(s):

\* /opt/cola/permits/1210557185\_1633418177.62/0/jinja2-3-0-2-tar-gz/Jinja2-3.0.2/PKG-INFO

\* /opt/cola/permits/1210557185\_1633418177.62/0/jinja2-3-0-2-tar-gz/Jinja2-3.0.2/src/Jinja2.egg-info/PKG-INFO

# 1.181 iotop 0.6-24-g733f3f8-1

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Anton Povarov <anton.povarov@gmail.com>

Brian Goff <cpuguy83@gmail.com>

Clayton Coleman <ccoleman@redhat.com>

Denis Smirnov <denis.smirnov.91@gmail.com>

DongYun Kang <ceram1000@gmail.com>

Dwayne Schultz <dschultz@pivotal.io>

Georg Apitz <gapitz@pivotal.io>

Gustav Paul <gustav.paul@gmail.com>

Johan Brandhorst <johan.brandhorst@gmail.com>

John Shahid <jvshahid@gmail.com>

John Tuley <john@tuley.org>

Laurent <laurent@adyoulike.com>

Patrick Lee <patrick@dropbox.com>

Peter Edge <peter.edge@gmail.com>

Roger Johansson <rogeralsing@gmail.com>

Sam Nguyen <sam.nguyen@sendgrid.com>

Sergio Arbo <serabe@gmail.com>

Stephen J Day <stephen.day@docker.com>

Tamir Duberstein <tamird@gmail.com>

Todd Eisenberger <teisenberger@dropbox.com>

Tormod Erevik Lea <tormodlea@gmail.com>

Vyacheslav Kim <kane@sendgrid.com>

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# 1.184 dlintw-goconf 0.0.0-20120228082610-dcc070983490

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## 1.186 go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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# 1.189 opentracing-contrib-go-observer 0.0.0-20170622124052-a52f23424492

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## 1.190 jackc-pgservicefile 0.0.0-20200714003250-2b9c44734f2b

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Brian Goff <cpuguy83@gmail.com>

Clayton Coleman <ccoleman@redhat.com>

Denis Smirnov <denis.smirnov.91@gmail.com>

DongYun Kang <ceram1000@gmail.com>

Dwayne Schultz <dschultz@pivotal.io>

Georg Apitz <gapitz@pivotal.io>

Gustav Paul <gustav.paul@gmail.com>

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Laurent <laurent@adyoulike.com>

Patrick Lee <patrick@dropbox.com>

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Roger Johansson <rogersaling@gmail.com>

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Sergio Arbo <serabe@gmail.com>

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.216 go-hclog 0.14.1

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## 1.219 go.uber.org/atom 1.7.0

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# 1.236 golang-sql-civil 0.0.0-20190719163853-cb61b32ac6fe

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Danny Yoo <dannyoo@google.com>

James Kolb <jkolb@google.com>

Jonathan Amsterdam <jba@google.com>

Markus Zimmermann <markus.zimmermann@nethead.at> <markus.zimmermann@symflower.com>  
<zimmski@gmail.com>

Matt Kovars <akaskik@gmail.com>

rjan Persson <orjan@spotify.com>

Osman Masood <oamasood@gmail.com>

Robert Carlsen <rwcarlsen@gmail.com>

Rory Flynn <roryflynn@users.noreply.github.com>

Sergi Mansilla <sergi.mansilla@gmail.com>

Shatrugna

Sadhu <ssadhu@apcera.com>

Shawn Smith <shawnsmith@gmail.com>

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## 1.242 trylock 0.0.0-20191027065348-ff7e133a5c54

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## 1.243 urfave-cli 1.20.0

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```

Found in path(s):

```
* /opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-
jar/org/jasig/cas/client/validation/Saml11TicketValidationFilter.java
*
/opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-
jar/org/jasig/cas/client/util/SamlUtils.java
* /opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-
jar/org/jasig/cas/client/validation/Saml11TicketValidator.java
* /opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-
jar/org/jasig/cas/client/authentication/Saml11AuthenticationFilter.java
```

## 1.244 pretty 1.2.0

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## 1.247 prometheus-procfs 0.0.11

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.248 charset-normalizer 2.0.7

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## 1.249 facebookgo-stats 0.0.0-

## 20180706035515-f23751cae28b

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## 1.250 golcs 0.0.0-20170316035057-ecda9a501e82

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## 1.251 xorm.io-core 0.7.3

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## 1.252 gojsondiff 1.0.0

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Aaron L <aaron@bettercoder.net>  
Alan Shreve <alan@inconshreveable.com>  
Andy Walker <walkeraj@gmail.com>  
Andy Watson <andrewmoorewatson@gmail.com>  
Carl Veazey <Carl\_Veazey@cable.comcast.com>  
Chris Hines <github@cs-guy.com>  
Christoph Hack <christoph@tux21b.org>  
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Gonzalo Serrano <boikot@gmail.com>  
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# 1.256 facebookgo-structtag 0.0.0-

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## 1.258 vividcortex-mysqlerr 0.0.0-

## 20170204212430-6c6b55f8796f

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## 1.260 go-macaron-inject 0.0.0-20160627170012-d8a0b8677191

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\* /opt/cola/permits/1213299335\_1635451814.84/0/golang-github-go-macaron-inject-master-zip/golang-github-go-macaron-inject-master/golang-github-go-macaron-inject.spec

## 1.261 cheekybits-genny 1.0.0

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## 1.262 linkedin-goavro 2.9.7

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## 1.263 shortid 0.0.0-20171029131806-771a37caa5cf

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## 1.264 inject 0.0.0-20180706035515-f23751cae28b

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## 1.265 go-datemath 0.1.1-0.20200323150745-74ddef604fff

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## 1.266 xorm.io-xorm 0.8.1

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# 1.267 go-macaron-gzip 0.0.0-20160222043647-cad1c6580a07

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# 1.268 uap-go 0.0.0-20190826212731- daf92ba38329

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## 1.269 gopkg-in/ldap 3.0.2

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## 1.270 benbjohnson-clock 0.0.0-20161215174838-7dc76406b6d3

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# 1.272 robot-telemetry\_proto 0.0.0-20210520062046-a73bb180cba4

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/\*

\* Generated by nsc --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
        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 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";
}

```

```

}
# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
#   Name <email address>

```

```

Paul Borman <borman@google.com>
Andrew Fort <afort@arista.com>
Rob Shakir <robjs@google.com>

```

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--

-- Juniper Enterprise Specific MIB: License MIB

--

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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  
-- \*\*\*\*\*

jnxLicenseRenewBeforeExpiration 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 within 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.

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.";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

```
leaf clmgmtLicenseActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
  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.";  
  smiv2:max-access "not-accessible";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";  
}
```

```
leaf clmgmtLicenseActionEntPhysicalIndex  
{  
  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 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.";

```
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 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.";  
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 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.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";

```
leaf clmgmtDevCredExportActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  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.";

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.
```

```
//
```

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// you may not use this file except in compliance with the License.
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//
```

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//
```

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```

```
// distributed under the License is distributed on an "AS IS" BASIS,
```

```
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```

```
// 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 advservices 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 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'. "  
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          SnmAdminString,  
    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 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."

```
::= { 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  
SnmAdminString  
    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."

SYNTAX Unsigned32

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 `clmgtLicenseActionRowStatus` 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 `clmgtLicenseActionRowStatus` 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 `clmgtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgtLicenseActionRowStatus` to `destroy(6)` when `clmgtLicenseActionState` 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. 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. 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 accepted  
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  
16 }

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

# 1.273 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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## 1.274 cffi 1.15.0

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# 1.275 globalsign-mgo 0.0.0-20181015135952-eeefdecbb41b8

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mgo - MongoDB driver for Go

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## 1.276 influxdb 1.9.4

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## 1.278 andybalholm-brotli 1.0.2

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# 1.279 mgo 0.0.0-20181015135952- eeefdec b41b8

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## 1.280 urllib3 1.26.6-1.ph1

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## 1.281 profile 1.6.0

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# 1.282 x-crypto 0.0.0-20201208171446-5f87f3452ae9

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# 1.283 gomodule-redigo 2.0.0+incompatible

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Nigel Tao <nigeltao@golang.org>
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## 1.285 fzambia-eagle 0.0.1

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## 1.286 mna-redisc 1.1.7

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## 1.288 sqlhooks 1.3.0

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## 1.289 prometheus-node-exporter 1.0.0-

## rc.0.0.20200428091818-01054558c289

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...

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Brett Vickers (beevik)

Mikhail Salosin (AlphaB)

Anton Tolchanov (knyar)

Christopher Batey (chbatey)

Meng Zhuo (mengzhuo)

Leonid Evdokimov (darkk)

Ask Bjrn Hansen (abh)

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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}
```

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Configurable modular Prometheus exporter for various node metrics.

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# 1.290 facebookgo-inject 0.0.0-20180706035515-f23751cae28b

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## 1.291 clockwork 0.2.2

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Clockwork - a clock process to replace cron

=====

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.]([http://adam.heroku.com/past/2010/4/13/rethinking\\_cron/](http://adam.heroku.com/past/2010/4/13/rethinking_cron/))

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Quickstart

-----

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')

every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
```

[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]  
[2010-05-25 18:16:46 -0700] -> frequent.job

Use with queueing

-----

The clock process only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as

[Delayed Job](<http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job>),

[Beanstalk/Stalker]([http://adam.heroku.com/past/2010/4/24/beanstalk\\_a\\_simple\\_and\\_fast\\_queueing\\_backend/](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/)),

[RabbitMQ/Minion]([http://adamblog.heroku.com/past/2009/9/28/background\\_jobs\\_with\\_rabbitmq\\_and\\_minion/](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/)),

or

[Resque](<http://github.com/blog/542-introducing-resque>). This design allows a

simple clock process with no locks, but also offers

near infinite horizontal

scalability.

For example, if you're using Beanstalk/Staker:

```
require 'stalker'
```

```
handler { |job| Stalker.enqueue(job) }
```

```
every(1.hour, 'feeds.refresh')
```

```
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

```
require 'config/boot'
```

```
require 'config/environment'
```

```
every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
```

```
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file

-----

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly),

this

exposes a small DSL ("handler" and "every") to define the handler for events,

and then the events themselves.

The handler typically looks like this:

```
handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
every(5.minutes, 'thing.do')
every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call `enqueue_your_job('thing.do')`.

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```
every(5.minutes,
'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```
every(1.day, 'check.leap.year') do
  Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
end
```

In production

-----

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

- \* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
- \* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta

----

Created by Adam Wiggins

Inspired by [rufus-scheduler](<http://rufus.rubyforge.org/rufus-scheduler/>) and [<http://github.com/bvandenbos/resque-scheduler>](resque-scheduler)

Design

assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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<http://github.com/adamwiggins/clockwork>

Found in path(s):

\* /opt/cola/permits/1215783807\_1634571130.71/0/clockwork-0-2-2-2-gem/data-tar-gz/README.md

# 1.292 opentracing-go-stdlib 1.0.0

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# 1.296 mattetti-filebuffer 1.0.1

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# 1.298 fzambia-sentinel 1.1.0

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### 0.0.0-20201213122252-bcd7e1b9601e

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tomb - support for clean goroutine termination in Go.

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Alex A. Skinner

Andrew Tunnell-Jones

Ask Bjrjn Hansen

Dave Cheney

Dusty Wilson

Marek Majkowski

Peter van Dijk

Omri Bahumi

Alex Sergeev

James Hartig

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import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
```

```

type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data
[]byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

```

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Hyoun Kyu Cho <netforce@google.com>

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

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Anton Povarov <anton.povarov@gmail.com>

Brian Goff <cpuguy83@gmail.com>

Clayton Coleman <ccoleman@redhat.com>

Denis Smirnov <denis.smirnov.91@gmail.com>

DongYun Kang <ceram1000@gmail.com>

Dwayne Schultz <dschultz@pivotal.io>

Georg Apitz <gapitz@pivotal.io>

Gustav Paul <gustav.paul@gmail.com>

Johan Brandhorst <johan.brandhorst@gmail.com>

John Shahid <jvshahid@gmail.com>

John Tuley <john@tuley.org>

Laurent <laurent@adyoulike.com>

Patrick Lee <patrick@dropbox.com>

Peter Edge <peter.edge@gmail.com>

Roger Johansson <rogersaling@gmail.com>

Sam Nguyen <sam.nguyen@sendgrid.com>  
Sergio Arbo <serabe@gmail.com>  
Stephen J Day <stephen.day@docker.com>  
Tamir Duberstein <tamird@gmail.com>  
Todd Eisenberger <teisenberger@dropbox.com>  
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```
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```

```
Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@goglers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
```

Kunpei Sakai <namusyaka@gmail.com>  
Matthew Dolan <dolan@lightstep.com>  
Matthew Whisenhunt <matt.whisenhunt@gmail.com>  
Michael McGreevy <mcgreevy@golang.org>  
Nick Craig-Wood <nickcw@gmail.com>  
Robbie  
Trencheny <me@robbiet.us>  
Ross Light <light@google.com>  
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#

Andreas Jaekle <andreas@jaekle.net>

Dmitri Shuralyov <shurcool@gmail.com>

Ethan Mosbaugh <emosbaugh@gmail.com>

Soheil Hassas Yeganeh <soheil.h.y@gmail.com>

Soheil Hassas Yeganeh <soheil@cs.toronto.edu>

Tamir Duberstein <tamir@cockroachlabs.com>

Tamir Duberstein <tamird@gmail.com>

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package api

```
import (  
  "io/ioutil"  
  "strings"  
  "time"  
)
```

```

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
    Flags map[string]interface{}
    `json:"flags"`

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"`

    // List of features enabled by the license
    Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    }
}

```

```

} else {
    return &reply, nil
}
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it
// is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)

```



```
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return nil, err
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil
}
```

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*/
```

```
package minio
```

```
import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
    XMLNS
    string    `xml:"xmlns,attr,omitempty"`
    XMLName  xml.Name    `xml:"LegalHold"`
    Status   LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
```

```

LegalHoldEnabled LegalHoldStatus = "ON"

// LegalHoldDisabled indicates legal hold is disabled
LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled ||
        r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
        urlValues.Set("versionId", opts.VersionID)
    }

```

```

}

lh,
err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:    bucketName,
    objectName:    objectName,
    queryValues:   urlValues,
    contentType:   bytes.NewReader(lhData),
    contentLength: int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions)
(status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
}

```

```

}
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
    urlValues.Set("versionId", opts.VersionID)
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
    bucketName:    bucketName,
    objectName:    objectName,
    queryValues:   urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil
}

```

# 1.306 cortexproject-cortex 1.4.1-0.20201022071705-85942c5703cf

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\*/

package minio

import (

"bytes"

"context"

"encoding/xml"

"fmt"

"net/http"

"net/url"

"github.com/minio/minio-go/v7/pkg/s3utils"

)

// objectLegalHold - object legal hold specified in

// <https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html>

type objectLegalHold struct {

XMLNS string `xml:"xmlns,attr,omitempty"`

XMLName



```

xml.Name      `xml:"LegalHold"`
Status LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
(*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

```

```

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
// Input validation.
if err := s3utils.CheckValidBucketName(bucketName); err != nil {
return err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
urlValues.Set("versionId", opts.VersionID)
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
return err
}

lhData, err := xml.Marshal(lh)
if
err != nil {
return err
}

reqMetadata := requestMetadata{
bucketName: bucketName,
objectName: objectName,
queryValues: urlValues,
contentBody: bytes.NewReader(lhData),
contentLength: int64(len(lhData)),
contentMD5Base64: sumMD5Base64(lhData),
contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
defer closeResponse(resp)
if err != nil {
return err
}

```

```

}
if resp != nil {
    if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return
        nil, err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
        urlValues.Set("versionId", opts.VersionID)
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:    bucketName,
        objectName:    objectName,
        queryValues:   urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    lh := &objectLegalHold{ }
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
}

```

```
return &lh.Status, nil
}
```

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```

import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

```

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#

# Names should be added to this file as:

# Name <email address>

Raul Silvera <rsilvera@google.com>

Tipp Moseley <tipp@google.com>

Hyoun Kyu Cho <netforce@google.com>

Martin Spier <spiermar@gmail.com>

Taco de Wolff <tacodewolff@gmail.com>

Andrew Hunter <andrewhhunter@gmail.com>

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

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Protocol Buffers for Go with Gadgets

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

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Alain Vongsouvanhalainv <alainv@google.com>  
Andrew Gerrand <adg@golang.org>  
Brad Fitzpatrick <bradfitz@golang.org>  
Eric Koleda <ekoleda+devrel@goglers.com>  
Francesc Campoy <campoy@golang.org>  
Garrick Evans <garrick@google.com>  
Glenn Lewis <gmlewis@google.com>  
Ivan Krasin <krasin@golang.org>  
Jason Hall <jasonhall@google.com>  
Johan Euphrosine <proppy@google.com>  
Kostik Shtoyk <kostik@google.com>  
Kunpei Sakai <namusyaka@gmail.com>  
Matthew Dolan <dolan@lightstep.com>  
Matthew Whisenhunt <matt.whisenhunt@gmail.com>  
Michael McGreevy <mcgreevy@golang.org>

Nick Craig-Wood <nickcw@gmail.com>  
Robbie Trencheny <me@robbiet.us>  
Ross Light <light@google.com>  
Sarah  
Adams <shadams@google.com>  
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Alex A. Skinner

Andrew Tunnell-Jones

Ask Bjrñ Hansen

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Dusty Wilson

Marek Majkowski

Peter van Dijk

Omri Bahumi

Alex Sergeev

James Hartig

Anton Povarov <[anton.povarov@gmail.com](mailto:anton.povarov@gmail.com)>

Brian Goff <[cpuguy83@gmail.com](mailto:cpuguy83@gmail.com)>

Clayton Coleman <[ccoleman@redhat.com](mailto:ccoleman@redhat.com)>

Denis Smirnov <[denis.smirnov.91@gmail.com](mailto:denis.smirnov.91@gmail.com)>

DongYun Kang <ceram1000@gmail.com>  
Dwayne Schultz <dschultz@pivotal.io>  
Georg Apitz <gapitz@pivotal.io>  
Gustav Paul <gustav.paul@gmail.com>  
Johan Brandhorst <johan.brandhorst@gmail.com>  
John Shahid <jvshahid@gmail.com>  
John Tuley <john@tuley.org>  
Laurent <laurent@adyoulike.com>  
Patrick Lee <patrick@dropbox.com>  
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Sam Nguyen <sam.nguyen@sendgrid.com>  
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Go support for leveled logs, analogous to

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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DNS library in Go

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gosnappy - a fork of [code.google.com/p/snappy-go](https://code.google.com/p/snappy-go)

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go-zookeeper - Native ZooKeeper client for Go

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Time series compression algorithm from Facebook's Gorilla paper

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package api

```
import (  
    "io/ioutil"  
    "strings"  
    "time"  
)
```

```
type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`  
  
    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`  
  
    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.  
    InstallationID string `json:"installation_id"`  
  
    // The time at which the license was issued  
    IssueTime time.Time `json:"issue_time"`  
  
    // The time at which the license starts being valid
```

```

StartTime time.Time `json:"start_time"`

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"`

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"`

// The product the license is valid for
Product string `json:"product"`

// License Specific Flags
Flags map[string]interface{} `json:"flags"`

// Modules is a list
// of the licensed enterprise modules
Modules []string `json:"modules"`

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
}

```

```

data, err := ioutil.ReadAll(resp.Body)
if err != nil {
    return "", err
}

return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license
// stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _,
    resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
}

```

return &reply, nil

}

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20200327222509-2487e7298839

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0619918236ec

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# 1.313 jackc-puddle 1.1.3

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Data model artifacts for Prometheus.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package spec

```
// License information for the exposed API.
```

```
//
```

```
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
```

```
    Name string `json:"name,omitempty"`
```

```
    URL string `json:"url,omitempty"`
```

```
}
```

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#

Dmitri Shuralyov <shurcool@gmail.com>

Ethan Mosbaugh <emosbaugh@gmail.com>

Soheil Hassas Yeganeh <soheil.h.y@gmail.com>

Soheil Hassas Yeganeh <soheil@cs.toronto.edu>

Tamir Duberstein <tamir@cockroachlabs.com>

Tamir Duberstein <tamird@gmail.com>

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# 1.317 gopkg-in/macaron 1.3.9

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## 1.318 grpc-ecosystem-go-grpc-middleware

### 1.2.1

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Found in path(s):

```
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
jar/io/vertx/ext/sockjs/impl/WebSocketTransport.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
jar/io/vertx/ext/sockjs/impl/XhrTransport.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
jar/io/vertx/ext/sockjs/impl/Session.java
*
/opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
jar/io/vertx/ext/sockjs/impl/JsonCodec.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
jar/io/vertx/ext/sockjs/EventBusBridgeHook.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
jar/io/vertx/ext/sockjs/impl/EventBusBridge.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
jar/io/vertx/ext/sockjs/impl/RawWebSocketTransport.java
```

\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/TransportListener.java  
\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/JsonPTransport.java  
\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/BaseTransport.java  
\*

/opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/HtmlFileTransport.java  
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\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/SockJSSocketBase.java  
\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/SockJSSocket.java  
\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/Transport.java  
\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/EventSourceTransport.java

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\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/BridgeOptions.java  
\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/SockJSServer.java  
\* /opt/cola/permits/1217182149\_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/SockJSServerOptions.java

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*/
```

Found in path(s):

```
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/ext-sockjs-
js/sock_js_server.js
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
jar/io/vertx/groovy/ext/sockjs/SockJSServer.groovy
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/ext-sockjs-
js/sock_jsserver.js
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* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/ext-sockjs-
js/sock_jssocket.js
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jar/io/vertx/groovy/ext/sockjs/SockJSSocket.groovy
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/ext-sockjs-
js/sock_js_socket.js
```

## 1.322 cloud-google-com-go 0.70.0

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package cloud

```

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }

        if ext := filepath.Ext(path);
        ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {

```

```
if !bytes.Contains(src, []byte(sentinel)) {
    t.Errorf("%v: license header not present. want %q", path, sentinel)
    return nil
}

return nil
})
if err != nil {
    t.Fatal(err)
}
}
```

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# 1.330 sqlx 1.3.4

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## 1.331 tdb 1.45.5

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include/bsd/vis.h  
man/bitstring.3bsd  
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man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
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man/fmtcheck.3bsd  
man/humanize\_number.3bsd  
man/stringlist.3bsd  
man/timeval.3bsd  
src/fmtcheck.c  
src/humanize\_number.c  
src/stringlist.c  
src/strtonum.c

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man/byteorder.3bsd  
man/closefrom.3bsd

man/expand\_number.3bsd

man/flopen.3bsd

man/getpeereid.3bsd

man/pidfile.3bsd

src/expand\_number.c

src/hash/sha512.h

src/hash/sha512c.c

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src/reallocf.c

src/timeconv.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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src/hash/md5.c

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## 1.338 jackc-pgproto 2.1.1

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## 1.342 prometheus-common 0.32.1

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=====

LIBGCRYPT Werner Koch 2001-06-07

Assigns past and future changes.

Assignment for future changes terminated on 2012-12-04.

wk@gnupg.org

Designed and implemented Libgcrypt.

GNUPG Matthew Skala 1998-08-10

Disclaims changes.

mskala@ansuz.sooke.bc.ca

Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11

Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17

Assigns changes.

mroth@nessie.de

Wrote

cipher/des.c.

Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18

Disclaims changes.

nh@df.lth.se

Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25

Assigns past and future changes. (g10/compress.c, g10/encr-data.c,  
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)

rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07

Assignment for future changes terminated on 2012-12-04.

Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31

Assigns past and future changes.

twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25

Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,  
CTS/MAC flags, self test improvements)

simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17

Assigns past and future changes.

moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22

nmav@gnutls.org

Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15

Assigns

past and future changes. (new: src/libgrypt.pc.in,  
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,  
mpi/hppa1.1/udiv-qrnnd.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/texp.c,  
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09

Assigns Past and Future Changes

bradh@frogmouth.net

(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.  
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07

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perky@freebsd.org

(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20

Assigns Past and Future Changes

werner.dittmann@t-online.de

(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw

Assigns past and future changes.

dshaw@jabberwocky.com

(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09

Assigns

Past and Future Changes

openpgp@brainhub.org

(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Miller 2012-02-15

Assigns Past and Future Changes

ulm@gentoo.org

(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26

Assigns Past and Future Changes

phcoder@gmail.com

(cipher/serpent.c)

Authors with a DCO

=====

Andrei Scherer <andsch@inbox.com>  
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>  
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>  
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>  
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>  
2012-12-14:50CAE2DB.80302@intel.com:

Jrmie Courrges-Anglas <jca@wxcvbn.org>  
2016-05-26:87bn3ssqg0.fsf@ritchie.wxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>  
2012-11-15:20121115172331.150537dzb5i6jmy8@www.dalek.fi:

Jussi  
Kivilinna <jussi.kivilinna@iki.fi>  
2013-05-06:5186720A.4090101@iki.fi:

Markus Teich <markus dot teich at stusta dot mhn dot de>  
2014-10-08:20141008180509.GA2770@trolle:

Mathias L. Baumann <mathias.baumann at sociomantic.com>  
2017-01-30:07c06d79-0828-b564-d604-fd16c7c86ebe@sociomantic.com:

Milan Broz <gmazyland@gmail.com>  
2014-01-13:52D44CC6.4050707@gmail.com:

Peter Wu <peter@lekensteyn.nl>  
2015-07-22:20150722191325.GA8113@al:

Rafal Carr <funman@videolan.org>  
2012-04-20:4F91988B.1080502@videolan.org:

Sergey V. <sftp.mtuci@gmail.com>  
2013-11-07:2066221.5IYa7Yq760@darkstar:

Stephan Mueller <smueller@chronox.de>

2014-08-22:2008899.25OeolVVA@myon.chronox.de:

Tom Mrz <tm@t8m.info>

2012-04-16:1334571250.5056.52.camel@vespa.frost.loc:

Vitezslav Cizek <vcizek@suse.com>

2015-11-05:20151105131424.GA32700@kolac.suse.cz

Werner Koch <wk@gnupg.org> (g10 Code GmbH)

2012-12-05:87obi8u4h2.fsf@vigenere.g10code.de:

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```

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

That's all there is to it!

## 1.345 libssh 0.9.3 2ubuntu2.2

### 1.345.1 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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Comment:

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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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Files: include/libssh/callbacks.h

src/scp.c

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Files: src/match.c

Copyright: 1995, Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland

2000, Markus Friedl

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Files: include/libssh/knownhosts.h

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Files: src/dh.c

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Dmitriy Kuznetsov <dk@yandex.ru>

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Files: src/auth.c

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Files: src/getpass.c

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Files: src/gssapi.c

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Files: cmake/Modules/DefineCMakeDefaults.cmake

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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2013, Aris Adamantiadis  
2006, Oswald Buddenhagen  
2006, Alexander Neundorf  
2006, Laurent Montel  
2006-2007 Wengo  
2007, Daniel Gollub  
2009-2011 Tobias Rautenkranz

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2014, Mike Gabriel <sunweaver@debian.org>

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Any executables

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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	Year	Owner	GPL-
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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.354 libseccomp 2.5.1-1ubuntu1~20.04.2

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## 1.358 python-requests 2.27.1

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## 1.363 lib-pq 1.10.4

### 1.363.1 Available under license :

```
//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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# 1.364 go-jmespath 0.4.0

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## 1.365 ansible 2.1

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## 1.366 popt 1.16-14

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## 1.367 jackc-pgproto 2.2.0

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## 1.368 x-net 0.0.0-20211112202133-

## 69e39bad7dc2

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# 1.370 cyrus-sasl 2.1.27+dfsg-2ubuntu0.1

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 * Rob Earhart
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 */
```

/\* CMU libsasl

\* Tim Martin

\* Rob Earhart

\* Rob Siemborski

\*/

/\*

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# 1.371 rich 11.2.0

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- Chris McDonough, 2011/02/16

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This package contains a modified version of ca-bundle.crt:

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

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

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

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

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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

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

## 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
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2.6.5	2.6.4	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.

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

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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
2.2	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
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2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
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2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
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2.1.1	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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Found in path(s):

\* /opt/cola/permits/1288546271\_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/LICENSE.rst

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

Metadata-Version: 2.1

Name: MarkupSafe

Version: 2.1.1

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Donate, <https://palletsprojects.com/donate>

Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>

Project-URL: Changes, <https://markupsafe.palletsprojects.com/changes/>

Project-URL: Source Code, <https://github.com/pallets/markupsafe/>

Project-URL: Issue Tracker, <https://github.com/pallets/markupsafe/issues/>

Project-URL: Twitter, <https://twitter.com/PalletsTeam>

Project-URL: Chat, <https://discord.gg/pallets>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License

:: OSI Approved :: BSD License  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=3.7  
Description-Content-Type: text/x-rst  
License-File: LICENSE.rst

## MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

## Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. \_pip: <https://pip.pypa.io/en/stable/getting-started/>

## Examples

-----

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape
```

```
>>> # escape replaces special characters and wraps in Markup
```

```
>>> escape("<script>alert(document.cookie);</script>")
```

```
Markup('&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
```

```
>>> # wrap in Markup to mark text "safe" and prevent escaping
```

```
>>> Markup("<strong>Hello</strong>")
```

```
Markup('<strong>hello</strong>')
```

```
>>> escape(Markup("<strong>Hello</strong>"))
```

```
Markup('<strong>hello</strong>')
```

```
>>> # Markup is a str subclass
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>{name}</em>")
>>> template.format(name="World")
Markup('Hello <em>&#34;World&#34;</em>')
```

## Donate

-----

The Pallets organization develops and supports MarkupSafe and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`\_.

.. \_please donate today: <https://palletsprojects.com/donate>

## Links

-----

- Documentation: <https://markupsafe.palletsprojects.com/>
- Changes: <https://markupsafe.palletsprojects.com/changes/>
- 
- PyPI Releases: <https://pypi.org/project/MarkupSafe/>
- Source Code: <https://github.com/pallets/markupsafe/>
- Issue Tracker: <https://github.com/pallets/markupsafe/issues/>
- Website: <https://palletsprojects.com/p/markupsafe/>
- Twitter: <https://twitter.com/PalletsTeam>
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Found in path(s):

```
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/src/MarkupSafe.egg-info/PKG-INFO
```

```
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/PKG-INFO
```

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

[metadata]

name = MarkupSafe

version = attr: markupsafe.\_\_version\_\_

url = <https://palletsprojects.com/p/markupsafe/>

project\_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://markupsafe.palletsprojects.com/>

Changes = <https://markupsafe.palletsprojects.com/changes/>

Source Code = <https://github.com/pallets/markupsafe/>

Issue Tracker = <https://github.com/pallets/markupsafe/issues/>

Twitter = <https://twitter.com/PalletsTeam>  
Chat = <https://discord.gg/pallets>  
license = BSD-3-Clause  
license\_files = LICENSE.rst  
author = Armin Ronacher  
author\_email = armin.ronacher@active-4.com  
maintainer = Pallets  
maintainer\_email = contact@palletsprojects.com  
description = Safely add untrusted strings to HTML/XML markup.  
long\_description = file: README.rst  
long\_description\_content\_type = text/x-rst  
classifiers =  
Development Status :: 5 - Production/Stable  
Environment :: Web Environment  
Intended Audience ::  
Developers  
License :: OSI Approved :: BSD License  
Operating System :: OS Independent  
Programming Language :: Python  
Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Topic :: Text Processing :: Markup :: HTML

[options]

packages = find:  
package\_dir = = src  
include\_package\_data = True  
python\_requires = >= 3.7

[options.packages.find]

where = src

[tool:pytest]

testpaths = tests  
filterwarnings =  
error

[coverage:run]

branch = True  
source =  
markupsafe  
tests

[coverage:paths]

source =  
src  
\*/site-packages

[flake8]



select = B, E, F, W, B9, ISC

ignore =

E203

E501

E722

W503

max-line-length = 80

[mypy]

files = src/markupsafe

python\_version = 3.7

show\_error\_codes = True

disallow\_subclassing\_any = True

disallow\_untyped\_calls = True

disallow\_untyped\_defs = True

disallow\_incomplete\_defs = True

no\_implicit\_optional = True

local\_partial\_types = True

no\_implicit\_reexport = True

strict\_equality = True

warn\_redundant\_casts = True

warn\_unused\_configs = True

warn\_unused\_ignores = True

warn\_return\_any

= True

warn\_unreachable = True

[egg\_info]

tag\_build =

tag\_date = 0

Found in path(s):

\* /opt/cola/permits/1288546271\_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/setup.cfg

## 1.380 urllib3 1.26.9

### 1.380.1 Available under license :

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## 1.381 antchfx-xmlquery 1.3.9

### 1.381.1 Available under license :

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## 1.382 perl 5.30.0 9ubuntu0.2

### 1.382.1 Available under license :

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*
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*
* You may distribute under the terms of either the GNU General Public
* License or the Artistic License, as specified in the README file.
*
```

```
*/
# To give due honour to those who have made Perl 5 what it is today,
# here are easily-from-changelogs-extractable people and their
# (hopefully) current and preferred email addresses from the commits.
# These people have either submitted patches or suggestions, or their bug
# reports or comments have inspired the appropriate patches. Corrections,
# additions, deletions welcome; send them to perlbug@perl.org, preferably
# as the output of diff(1), diff -u or diff -c between the original and a
# corrected version of this file.
#
# The use of this database for anything else than Perl development
# is strictly forbidden. (Passive distribution with the Perl source
# code kit is, of course, allowed.)
#
# This should contain the preferred addresses. Alternate addresses are in
# Porting/checkAUTHORS.pl.
#
# After editing, please run: make test_porting
--
A. C. Yardley <yardley@tanet.net>
A. Sinan Unur <nanis@cpan.org>
Aaron B. Dossett <aaron@iglou.com>
Aaron Crane <arc@cpan.org>
Aaron
J. Mackey <ajm6q@virginia.edu>
Aaron Priven <aaron@priven.com>
Aaron Trevena <aaaron.trevena@gmail.com>
Abe Timmerman <abe@ztreet.demon.nl>
Abhijit Menon-Sen <ams@toroid.org>
Abigail <abigail@abigail.be>
Abir Viqar <abiviq@hushmail.com>
Achim Bohnet <ach@mpe.mpg.de>
Achim Gratz <achim.gratz@stromeko.de>
Adam Flott <adam@npjh.com>
Adam Kennedy <adam@ali.as>
Adam Krolnik <adamk@gypsy.cyrix.com>
Adam Milner <carmiac@nmt.edu>
Adam Russell <arussell@cs.uml.edu>
Adam Spiers
Adrian M. Enache <enache@rdslink.ro>
Adriano Ferreira <a.r.ferreira@gmail.com>
Akim Demaille <akim@epita.fr>
Alain Barbet <alian@cpan.org>
Alan Burlison <Alan.Burlison@uk.sun.com>
Alan Champion <achampio@lehman.com>
Alan Ferrency <alan@pair.com>
Alan Grover <awgrover@gmail.com>
Alan Grow <agrow@thegotoner.com>
```

Alan Haggai Alavi <haggai@cpan.org>  
Alan Harder <Alan.Harder@Ebay.Sun.COM>  
Alan Hourihane <alanh@fairlite.co.uk>  
Alan Modra  
Alastair Douglas <alastair.douglas@gmail.com>  
Albert  
Chin-A-Young <china@thewrittenword.com>  
Albert Dvornik <bert@alum.mit.edu>  
Alberto Simões <ambs@cpan.org>  
Alessandro Forghieri <alf@orion.it>  
Alex Davies <adavies@ptc.com>  
Alex Gough <alex@rcon.org>  
Alex Solovey <a.solovey@gmail.com>  
Alex Vandiver <alexmv@mit.edu>  
Alex Waugh <alex@alexwaugh.com>  
Alexander Alekseev <alex@alemate.ru>  
Alexander Bluhm <alexander\_bluhm@genua.de>  
Alexander D'Archangel <darksuji@gmail.com>  
Alexander Gernler <alexander\_gernler@genua.de>  
Alexander Gough <alex-p5p@earth.li>  
Alexander Hartmaier <abraxxa@cpan.org>  
Alexander Klimov <ask@wisdom.weizmann.ac.il>  
Alexander Smishlajev <als@turnhere.com>  
Alexander Voronov <alexander-voronov@yandex.ru>  
Alexandr Ciornii <alexchorny@gmail.com>  
Alexandr Savca <alexandr.savca89@gmail.com>  
Alexandre (Midnite) Jousset <mid@gtmp.org>  
Alexei Alexandrov <alexei.alexandrov@gmail.com>  
Alexey Mahotkin <alexm@netli.com>  
Alexey Toptygin <alexeyt@freeshell.org>  
Alexey Tourbin <at@altlinux.ru>  
Alexey  
V. Barantsev <barancev@kazbek.ispras.ru>  
Ali Polatel <alip@exherbo.org>  
Allen Smith <allens@cpan.org>  
Ambrose Kofi Laing  
Ammon Riley <ammon@rhythm.com>  
Ananth Kesari <HYanantha@novell.com>  
Anders Johnson <ajohnson@nvidia.com>  
Andreas Guðmundsson <andreasg@nasarde.org>  
Andreas Karrer <karrer@ife.ee.ethz.ch>  
Andreas Klussmann <andreas@infosys.heitec.de>  
Andreas König <a.koenig@mind.de>  
Andreas Marienborg <andreas.marienborg@gmail.com>  
Andreas Schwab <schwab@suse.de>  
Andreas Voegelé <andreas@andreasvoegele.com>  
Andrei Yelistratov <andrew@sundale.net>  
Andrej Borsenkow <Andrej.Borsenkow@mow.siemens.ru>

Andrew Bettison <andrewb@zip.com.au>  
Andrew Burt <aburt@isis.cs.du.edu>  
Andrew Cohen <cohen@andy.bu.edu>  
andrew deryabin <djsf@technarchy.ru>  
Andrew Fresh <afresh1@openbsd.org>  
Andrew Hamm <AHamm@civica.com.au>  
Andrew M. Langmead <aml@world.std.com>  
Andrew Pimlott <pimlott@idiomtech.com>  
Andrew Rodland <arodland@cpan.org>  
Andrew Savage <ajsavage@yahoo.com.au>  
Andrew  
Tam <andrewtam000@gmail.com>  
Andrew Vignaux <ajv@nz.sangacorp.com>  
Andrew Wilcox <awilcox@maine.com>  
Andrey Sapozhnikov <sapa@icb.chel.su>  
Andy Armstrong <andy@hexten.net>  
Andy Broad <andy@broad.ology.org.uk>  
Andy Bussey <andybussey@yahoo.co.uk>  
Andy Dougherty <doughera@lafayette.edu>  
Andy Lester <andy@petdance.com>  
Anno Siegel <anno4000@lublin.zrz.tu-berlin.de>  
Anthony David <adavid@netinfo.com.au>  
Anthony Heading <anthony@ajrh.net>  
Anton Berezin <tobez@tobez.org>  
Anton Nikishaev <me@lelf.lu>  
Anton Tagunov <tagunov@motor.ru>  
Archer Sully <archer@meer.net>  
Aristotle Pagaltzis <pagaltzis@gmx.de>  
Arjen Laarhoven <arjen@nl.demon.net>  
Arkturuz <arkturuz@gmail.com>  
Arne Ahrend <aahrend@web.de>  
Arnold D. Robbins <arnold@gnu.ai.mit.edu>  
Art Green <Art\_Green@mercmarine.com>  
Art Haas <ahaas@airmail.net>  
Arthur Axel 'FREW' Schmidt <frioux@gmail.com>  
Artiom Morozov <artiom@phreaker.net>  
Artur Bergman <artur@contiller.se>  
Arvan <apritchard@zeus.com>  
Ash  
Berlin <ash@cpan.org>  
Ask Bjørn Hansen <ask@develooper.com>  
Audrey Tang <cpan@audreyt.org>  
Augustina Blair <auggy@cpan.org>  
Axel Boldt  
Barrie Slaymaker <barries@slaysys.com>  
Barry Friedman  
Bart Kedryna <bkedryna@home.com>  
Bas van Sisseren <bas@quarantainenet.nl>

Beau Cox  
Ben Carter <bcarter@gumdrop.flyinganvil.org>  
Ben Hengst <notbenh@cpan.org>  
Ben Morrow <ben@morrow.me.uk>  
Ben Okopnik <ben@linuxgazette.net>  
Ben Tilly <ben\_tilly@operamail.com>  
Benjamin Goldberg <goldbb2@earthlink.net>  
Benjamin Holzman <bah@ecnvantage.com>  
Benjamin Low <b.d.low@unsw.edu.au>  
Benjamin Smith <bsmith@cabbage.org.uk>  
Benjamin Stuhl <sho\_pi@hotmail.com>  
Benjamin Sugars <bsugars@canoe.ca>  
Bernard Quatermass <bernard@quatermass.co.uk>  
Bill Campbell <bill@celestial.com>  
Bill Glicker <billg@burrelles.com>  
Billy Constantine <wdconsta@cs.adelaide.edu.au>  
Blair Zajac <blair@orcaware.com>  
Bo Borgerson <gigabo@gmail.com>  
Bo Johansson <bo.johansso@lsn.se>  
Bo  
Lindbergh <blgl@stacken.kth.se>  
Bob Dalgleish <Robert.Dalgleish@sk.sympatico.ca>  
Bob Ernst <boernst@cpan.org>  
Bob Wilkinson <bob@fourtheye.org>  
Boris Ratner <ratner2@gmail.com>  
Boris Zentner <bzm@2bz.de>  
Boyd Gerber <gerberb@zenez.com>  
Brad Appleton <bradapp@enteract.com>  
Brad Gilbert <b2gills@gmail.com>  
Brad Howerter <bhower@wgc.woodward.com>  
Brad Hughes <brad@tgsinc.com>  
Brad Lanam <bll@gentoo.com>  
Bradley Dean <bjdean@bjdean.id.au>  
Bram <perl-rt@wizbit.be>  
Brandon Black <blblack@gmail.com>  
Brendan Byrd <BBYRD@CPAN.org>  
Brendan O'Dea <bod@debian.org>  
Breno G. de Oliveira <garu@cpan.org>  
Brent B. Powers <powers@ml.com>  
Brent Dax <brentdax@cpan.org>  
Brian Callaghan <callagh@itginc.com>  
Brian Carlson <brian.carlson@cpanel.net>  
Brian Childs <brian@rentec.com>  
Brian Clarke <clarke@appliedmeta.com>  
brian d foy <brian.d.foy@gmail.com>  
Brian Fraser <fraserbn@gmail.com>  
Brian Gottreu <gottreu@gmail.com>  
Brian Greenfield <briang@cpan.org>

Brian  
Grossman  
Brian Harrison <brie@corp.home.net>  
Brian Jepson <bjepson@oreilly.com>  
Brian Katzung  
Brian McCauley <nobull@mail.com>  
Brian Phillips <bphillips@cpan.org>  
Brian Reichert <reichert@internet.com>  
Brian S. Cashman <bsc@umich.edu>  
Brian Strand <bstrand@switchmanagement.com>  
Brooks D Boyd  
Bruce Barnett <barnett@grymoire.crd.ge.com>  
Bruce J. Keeler <bkeelerx@iwa.dp.intel.com>  
Bruce P. Schuck <bruce@aps.org>  
Bud Huff <BAHUFF@us.oracle.com>  
Byron Brummer <byron@omix.com>  
C Aditya <caditya@novell.com>  
Calle Dybedahl <calle@lysator.liu.se>  
Campo Weijerman <rfc822@nl.ibm.com>  
Carl Eklof <CEklof@endeca.com>  
Carl Hayter <hayter@usc.edu>  
Carl M. Fongheiser <cmf@ins.infonet.net>  
Carl Witty <cwitty@newtonlabs.com>  
Cary D. Renzema <caryr@mxim.com>  
Casey R. Tweten <crt@kiski.net>  
Casey West <casey@geeknest.com>  
Castor Fu  
Chad Granum <chad.granum@dreamhost.com>  
Chaim Frenkel <chaimf@pobox.com>  
Charles Bailey <bailey@newman.upenn.edu>  
Charles  
F. Randall <crandall@free.click-n-call.com>  
Charles Lane <lane@DUPHY4.Physics.Drexel.Edu>  
Charles Randall <cfriv@yahoo.com>  
Charles Wilson <cwilson@ece.gatech.edu>  
Charlie Gonzalez <itcharlie@gmail.com>  
Chas. Owens <chas.owens@gmail.com>  
Chase Whitener <cwhitener@gmail.com>  
Chaskiel M Grundman  
Chia-liang Kao <clkao@clkao.org>  
Chip Salzenberg <chip@pobox.com>  
Chip Turner <cturner@redhat.com>  
chocolateboy <chocolateboy@chocolatey.com>  
Chris Ball <chris@cpan.org>  
Chris 'BinGOs' Williams <chris@bingosnet.co.uk>  
Chris Bongaarts <cab@tc.umn.edu>  
Chris Dolan <chris@chrisdolan.net>  
Chris Faylor <cgf@bbc.com>

Chris Heath <chris@heathens.co.nz>  
Chris Lamb <lamby@debian.org>  
Chris Lightfoot <chris@ex-parrot.com>  
Chris Nandor <pudge@pobox.com>  
Chris Pepper  
Chris R. Donnelly <chris.donnelly@vauto.com>  
Chris Travers <chris.travers@gmail.com>  
Chris Tubutis <chris@broadband.att.com>  
Chris Wick <cwick@lmc.com>  
Chris Williams <chrisw@netinfo.com.au>  
Christian  
Burger <burger@terra.mpikg-teltow.mpg.de>  
Christian Hansen <chansen@cpan.org>  
Christian Kirsch <ck@held.mind.de>  
Christian Millour <cm.perl@abtela.com>  
Christian Winter <bitpoet@linux-config.de>  
Christoph Lamprecht <ch.l.ngre@online.de>  
Christophe Grosjean <christophe.grosjean@gmail.com>  
Christopher Chavez <chrischavez@gmx.us>  
Christopher Chan-Nui <channui@austin.ibm.com>  
Christopher Davis <ckd@loiosh.kei.com>  
Christopher J. Madsen <perl@cjmweb.net>  
chromatic <chromatic@wgz.org>  
Chuck Phillips <perl@cadop.com>  
Chun Bing Ge <gecb@cn.ibm.com>  
Chunhui Teng <cteng@nortel.ca>  
Claes Jacobsson <claes@surfbar.nu>  
Clark Cooper <coopercc@netheaven.com>  
Claudio Ramirez <nxadm@cpan.org>  
Clinton A. Pierce <clintp@geeksalad.org>  
Colin Kuskie <ckuskie@cadence.com>  
Colin McMillen <mcmi0073@tc.umn.edu>  
Colin Meyer <cmeyer@helvella.org>  
Colin Newell <colin.newell@gmail.com>  
Colin Watson <colinw@zeus.com>  
Conrad Augustin  
Conrad E. Kimball <cek@tblv021.ca.boeing.com>  
Craig  
A. Berry <craigberry@mac.com>  
Craig DeForest <zowie@euterpe.boulder.swri.edu>  
Craig Milo Rogers <Rogers@ISI.EDU>  
Curtis Jewell <perl@csjewell.fastmail.us>  
Curtis Poe <cp@onsitetech.com>  
Dabrien 'Dabe' Murphy <dabe@dabe.com>  
Dagfinn Ilmari Mannsåker <ilmari@ilmari.org>  
Dale Amon <amon@vnl.com>  
Damian Conway <damian@conway.org>  
Damon Atkins <Damon.Atkins@nabaus.com.au>



Dan Book <grinnz@grinnz.com>  
Dan Boorstein <dan\_boo@bellsouth.net>  
Dan Brook <dbrook@easyspace.com>  
Dan Collins <dcollinsn@gmail.com>  
Dan Dascalescu <bigbang7@gmail.com>  
Dan Dedrick <ddedrick@lexmark.com>  
Dan Hale <danhale@us.ibm.com>  
Dan Jacobson <jidanni@jidanni.org>  
Dan Kogai <dankogai@dan.co.jp>  
Dan Schmidt <dfan@harmonixmusic.com>  
Dan Sugalski <dan@sidhe.org>  
Daniel Berger <djberg86@attbi.com>  
Daniel Chetlin <daniel@chetlin.com>  
Daniel Dragan <bulk88@hotmail.com>  
Daniel Frederick Crisman <daniel@crisman.org>  
Daniel Grisinger <dgris@dimensional.com>  
Daniel  
Kahn Gillmor <dkg@fifthhorseman.net>  
Daniel Lieberman <daniel@bitpusher.com>  
Daniel Muiño <dmuino@afip.gov.ar>  
Daniel P. Berrange <dan@berrange.com>  
Daniel Perrett <perrettdl@googlemail.com>  
Daniel S. Lewart <lewart@uiuc.edu>  
Daniel Yacob <perl@geez.org>  
Danny R. Faught <faught@mailhost.rsn.hp.com>  
Danny Sadinoff <danny-cpan@sadinoff.com>  
Darin McBride <dmcbride@cpan.org>  
Darrell Kindred <dkindred+@cmu.edu>  
Darrell Schiebel <drs@nrao.edu>  
Darren/Torin/Who Ever... <torin@daft.com>  
Dave Bianchi  
Dave Cross <dave@mag-sol.com>  
Dave Hartnoll <Dave\_Hartnoll@3b2.com>  
Dave Liney <dave.liney@gbr.conoco.com>  
Dave Nelson <David.Nelson@bellcow.com>  
Dave Paris  
Dave Rolsky <autarch@urth.org>  
Dave Schweisguth <dcs@neutron.chem.yale.edu>  
Dave Shariff Yadallee <doctor@doctor.n12k.ab.ca>  
David Billinghamurst <David.Billinghurst@riotinto.com.au>  
David Caldwell <david@porkrind.org>  
David Campbell  
David Cannings <lists@edeca.net>  
David Cantrell <david@cantrell.org.uk>  
David  
Couture  
David D. Kilzer <ddkilzer@lubricants-oil.com>  
David Denholm <denholm@conmat.phys.soton.ac.uk>

David Dyck <david.dyck@fluke.com>  
David F. Haertig <dfh@dwroll.lucent.com>  
David Favor <david@davidfavor.com>  
David Feldman <david.feldman@tudor.com>  
David Fifield <david@bamssoftware.com>  
David Filo  
David Formosa <dformosa@dformosa.zeta.org.au>  
David Gay <dgay@acm.org>  
David Glasser <me@davidglasser.net>  
David Golden <dagolden@cpan.org>  
David H. Adler <dha@panix.com>  
David H. Gutteridge <dhgutteridge@sympatico.ca>  
David Hammen <hammen@gothamcity.jsc.nasa.gov>  
David J. Fiander <davidf@mks.com>  
David Kerry <davidk@tor.securecomputing.com>  
David Landgren <david@landgren.net>  
David Leadbeater <dgl@dgl.cx>  
David M. Syzdek <david@syzdek.net>  
David Manura <dm.list@math2.org>  
David McLean <davem@icc.gsfc.nasa.gov>  
David Mitchell <davem@iabyn.nospamdeletethisbit.com>  
David Muir Sharnoff <muir@idiom.com>  
David Nicol <whatever@davidnicol.com>  
David  
R. Favor <dfavor@austin.ibm.com>  
David Sparks <daves@ca.sophos.com>  
David Starks-Browning <dstarks@rc.tudelft.nl>  
David Steinbrunner <dsteinbrunner@pobox.com>  
David Sundstrom <sunds@asictest.sc.ti.com>  
David Wheeler <david@justatheory.com>  
Davin Milun <milun@cs.Buffalo.EDU>  
Dean Roehrich <roehrich@cray.com>  
Dee Newcum <perl.org@paperlined.org>  
deekoo <deekoo@tentacle.net>  
Dennis Kaarsemaker <dennis@booking.com>  
Dennis Marsa <dennism@cyrix.com>  
Devin Heitmueller <devin.heitmueller@gmail.com>  
DH <crazyinsomniac@yahoo.com>  
Diab Jerius <dj@head-cfa.harvard.edu>  
dLux <dflux@spam.sch.bme.hu>  
Dmitri Tikhonov <dmitri@cpan.org>  
Dmitry Karasik <dk@tetsuo.karasik.eu.org>  
Dmitry Ulanov <zprogd@gmail.com>  
Dominic Dunlop <domo@computer.org>  
Dominic Hargreaves <dom@earth.li>  
Dominique Dumont <Dominique\_Dumont@grenoble.hp.com>  
Dominique Quatravaux  
Doug Bell <madcityzen@gmail.com>

Doug Campbell <soup@ampersand.com>  
Doug MacEachern <dougm@covalent.net>  
Douglas  
Christopher Wilson <doug@somethingdoug.com>  
Douglas E. Wegscheid <dwegscheid@qtm.net>  
Douglas Lankshear <doug@lankshear.net>  
Douglas Wilson <dougw@cpan.org>  
Dov Grobgeld <dov@Orbotech.Co.IL>  
Dr.Ruud <rvtol+news@isolution.nl>  
Drago Goricanec <drago@raptor.otsd.ts.fujitsu.co.jp>  
Drew Stephens <drewgstephens@gmail.com>  
Duke Leto <jonathan@leto.net>  
Duncan Findlay <dunconf@debian.org>  
E. Choroba <choroba@cpan.org>  
Ed Avis <eda@waniasset.com>  
Ed J <etj@cpan.org>  
Ed Mooring <mooring@Lynx.COM>  
Ed Santiago <esm@pobox.com>  
Eddy Tan <eddy.net@gmail.com>  
Edgar Bering <trizor@gmail.com>  
Edmund Bacon  
Edward Avis <ed@membled.com>  
Edward Moy <emoy@apple.com>  
Edward Peschko <edwardp@excitehome.net>  
Elaine -HFB- Ashton <elaine@chaos.wustl.edu>  
Elizabeth Mattijsen <liz@dijkmat.nl>  
Enrico Sorcinelli <bepi@perl.it>  
Eric Amick  
Eric Arnold <eric.arnold@sun.com>  
Eric Bartley <bartley@icd.cc.purdue.edu>  
Eric Brine <ikegami@adaelis.com>  
Eric E. Coe <Eric.Coe@oracle.com>  
Eric  
Fifer <egf7@columbia.edu>  
Eric Herman <eric@freesa.org>  
Eric Melville  
Eric Promislow <ericp@ActiveState.com>  
Erich Rickheit  
Eryq <eryq@zeegee.com>  
Etienne Grossman <etienne@isr.isr.ist.utl.pt>  
Eugen Konkov <kes-kes@yandex.ru>  
Eugene Alterman <Eugene.Alterman@bremer-inc.com>  
Evan Miller <eam@frap.net>  
Evan Zacks <zackse@cpan.org>  
Fabien Tassin <tassin@eerie.fr>  
Father Chrysostomos <sprout@cpan.org>  
Felipe Gasper <felipe@felipegasper.com>  
Felix Gallo <fgallo@etoys.com>

Fergal Daly <fergal@esatclear.ie>  
Fingle Nark <finglenark@gmail.com>  
Florent Guillaume  
Florian Ragwitz <rafl@debian.org>  
François Désarménien <desar@club-internet.fr>  
François Perrad <francois.perrad@gadz.org>  
Frank Crawford  
Frank Ridderbusch <Frank.Ridderbusch@pdb.siemens.de>  
Frank Tobin <ftobin@uiuc.edu>  
Frank Wiegand <frank.wiegand@gmail.com>  
Franklin Chen <chen@adi.com>  
Franz Fasching <perldev@drfasching.com>  
Frederic Briere <fbriere@fbriere.net>  
Frédéric  
Chauveau <fmc@pasteur.fr>  
Fyodor Krasnov <fyodor@aha.ru>  
G. Del Merritt <del@intranetics.com>  
Gabe Schaffer  
Gabor Szabo <szabgab@gmail.com>  
Garry T. Williams <garry@zvolve.com>  
Gary Clark <GaryC@mail.jeld-wen.com>  
Gary L. Armstrong  
Gary Ng <71564.1743@compuserve.com>  
Gavin Shelley <columbusmonkey@me.com>  
Gene Sullivan <genesullivan50@yahoo.com>  
Geoffrey F. Green <geoff-public@stuebegreen.com>  
Geoffrey T. Dairiki <dairiki@dairiki.org>  
Georg Schwarz <geos@epost.de>  
George Greer <perl@greerga.m-l.org>  
George Hartzell <georgewh@gene.com>  
George Necula <necula@eecs.berkeley.edu>  
Geraint A Edwards <gedge@serf.org>  
Gerard Goossen <gerard@ggoossen.net>  
Gerben Wierda <G.C.Th.Wierda@AWT.nl>  
Gerd Knops <gerti@BITart.com>  
Gerrit P. Haase <gp@familiehaase.de>  
Gideon Israel Dsouza <gideon@cpan.org>  
Giles Lean <giles@nemeton.com.au>  
Gisle Aas <gisle@aas.no>  
Glenn D. Golden <gdg@zplane.com>  
Glenn Linderman <perl@nevc.com>  
Gordon J. Miller <gjm@cray.com>  
Gordon  
Lack <gml4410@ggr.co.uk>  
Goro Fuji <gfuji@cpan.org>  
Grace Lee <grace@hal.com>  
Graham Barr <gbarr@pobox.com>  
Graham Knop <haarg@haarg.org>

Graham TerMarsch <graham@howlingfrog.com>  
Grant McLean <grantm@cpan.org>  
Greg Bacon <gbacon@itsc.uah.edu>  
Greg Chapman <glc@well.com>  
Greg Earle  
Greg Kuperberg  
Greg Matheson <lang@ms.chinmin.edu.tw>  
Greg Seibert <seibert@Lynx.COM>  
Greg Ward <gward@ase.com>  
Gregor Chrupala <gregor.chrupala@star-group.net>  
gregor herrmann <gregoa@debian.org>  
Gregory Martin Pfeil <pfeilgm@technomadic.org>  
Guenter Schmidt <gsc@bruker.de>  
Guido Flohr <guido@imperia.net>  
Guruprasad S <SGURUPRASAD@novell.com>  
Gurusamy Sarathy <gsar@cpan.org>  
Gustaf Neumann  
Guy Decoux <decoux@moulon.inra.fr>  
Gwyn Judd <b.judd@xtra.co.nz>  
H.J. Lu <hjl@nynexst.com>  
H.Merijn Brand <h.m.brand@xs4all.nl>  
Hal Morris <hom00@utsglobal.com>  
Hal Pomeranz <pomeranz@netcom.com>  
Hallvard B Furuseth <h.b.furuseth@usit.uio.no>  
Hannu Napari <Hannu.Napari@hut.fi>  
Hans  
de Graaff <J.J.deGraaff@twi.tudelft.nl>  
Hans Dieter Pearcey <hdp@pobox.com>  
Hans Ginzl <hans@kolej.mff.cuni.cz>  
Hans Mulder <hansmu@xs4all.nl>  
Hans Ranke <Hans.Ranke@ei.tum.de>  
Harald Jörg <Harald.Joerg@arcor.de>  
Harmen <harm@dds.nl>  
Harmon S. Nine <hnine@netarx.com>  
Harri Pasanen <harri.pasanen@trema.com>  
Harry Edmon <harry@atmos.washington.edu>  
Hauke D <haukex@zero-g.net>  
Heiko Eissfeldt <heiko.eissfeldt@hexco.de>  
Helmut Jarausch <jarausch@numa1.igpm.rwth-aachen.de>  
Henrik Tougaard <ht.000@foa.dk>  
Herbert Breunung <lichtkind@cpan.org>  
Hernan Perez Masci <hmasci@uolsinectis.com.ar>  
Hershel Walters <walters@smd4d.wes.army.mil>  
Hio <hio@hio.jp>  
Hiroo Hayashi <hiroo.hayashi@computer.org>  
Hojung Youn <amoc.yn@gmail.com>  
Holger Bechtold  
Hongwen Qiu <qiuhongwen@gmail.com>

Horst von Brand <vonbrand@sleipnir.valparaiso.cl>  
Hrunting Jonhson  
Hubert Feyrer <hubert.feyrer@informatik.fh-regensburg.de>  
Hugo van der Sanden <hv@crypt.org>  
Hunter  
Kelly <retnuh@zule.pixar.com>  
Huw Rogers <count0@gremlin.straylight.co.jp>  
Iain Truskett  
Ian Goodacre <ian.goodacre@xtra.co.nz>  
Ian Maloney <ian.malonet@ubs.com>  
Ian Phillipps <Ian.Phillipps@iname.com>  
Ignasi Roca Carrió <ignasi.roca@fujitsu-siemens.com>  
Igor Sutton <izut@cpan.org>  
Igor Zaytsev <igor.zaytsev@gmail.com>  
Ilmari Karonen <iltzu@sci.fi>  
Ilya Martynov <ilya@martynov.org>  
Ilya N. Golubev <gin@mo.msk.ru>  
Ilya Sandler <Ilya.Sandler@etak.com>  
Ilya Zakharevich <ilya@math.berkeley.edu>  
Inaba Hiroto <inaba@st.rim.or.jp>  
Indy Singh <indy@nusphere.com>  
Ingo Weinhold <ingo\_weinhold@gmx.de>  
Ingy döt Net <ingy@ttul.org>  
insecure <insecure@mail.od.ua>  
Irving Reid <irving@tor.securecomputing.com>  
Ivan Kurmanov <kurmanov@openlib.org>  
Ivan Pozdeev <vano@mail.mipt.ru>  
Ivan Tubert-Brohman <itub@cpan.org>  
J. David Blackstone <jdb@dfwnet.sbms.sbc.com>  
J. Nick Koston <nick@cpanel.net>  
J. van Krieken <John.van.Krieken@ATComputing.nl>  
Jacinta  
Richardson <jarich@perltraining.com.au>  
Jack Shirazi <JackS@GemStone.com>  
Jacques Germishuys <jacquesg@striata.com>  
Jacqui Caren <Jacqui.Caren@ig.co.uk>  
Jake Hamby <jehamby@lightside.com>  
Jakub Wilk <jwilk@jwilk.net>  
James <james@rf.net>  
James A. Duncan <jduncan@fotango.com>  
James Clarke <jrtc27@jrtc27.com>  
James E Keenan <jkeen@cpa.org>  
James FitzGibbon <james@ican.net>  
James Jurach <muaddib@erf.net>  
James Mastros <james@mastros.biz>  
James McCoy <vega.james@gmail.com>  
James Raspas <jraspass@gmail.com>  
Jamshid Afshar

Jan D. <jan.djarv@mbox200.swipnet.se>  
Jan Dubois <jan@jandubois.com>  
Jan Pazdziora <adelton@fi.muni.cz>  
Jan Starzynski <jan@planet.de>  
Jan-Erik Karlsson <trg@privat.utfors.se>  
Jan-Pieter Cornet <johnpc@xs4all.nl>  
Jared Rhine <jared@organic.com>  
Jari Aalto <jari.aalto@poboxes.com>  
Jarkko Hietaniemi <jhi@iki.fi>  
Jasmine Ahuja <jasmine.ahuja11@gmail.com>  
Jasmine Ngan <jasmine.ngan@outlook.com>  
Jason A. Smith <smithj4@rpi.edu>  
Jason  
E. Stewart <jason@openinformatics.com>  
Jason Shirk  
Jason Stewart <jasons@cs.unm.edu>  
Jason Varsoke <jjv@caesun10.msd.ray.com>  
Jay Hannah <jhannah@mutationgrid.com>  
Jay Rogers <jay@rgrs.com>  
JD Laub <jdl@access-health.com>  
Jeff Bouis  
Jeff McDougal <jmcd@cris.com>  
Jeff Okamoto <okamoto@corp.hp.com>  
Jeff Pinyan <japhy@pobox.com>  
Jeff Siegal <jbs@eddie.mit.edu>  
Jeff Urlwin <jurlwin@access.digex.net>  
Jeffrey Friedl <jfriedl@regex.info>  
Jeffrey S. Haemer <jsh@woodcock.boulder.qms.com>  
Jens Hamisch <jens@Strawberry.COM>  
Jens Stavnstrup <js@ddre.dk>  
Jens T. Berger Thielemann <jensthi@ifi.uio.no>  
Jens Thomsen <jens@fiend.cis.com>  
Jens-Uwe Mager <jum@helios.de>  
Jeremy D. Zawodny <jeremy@zawodny.com>  
Jeremy H. Brown <jhbrown@ai.mit.edu>  
Jeremy Madea <jmadea@inktomi.com>  
Jerome Abela <abela@hsc.fr>  
Jerrad Pierce <belg4mit@MIT.EDU>  
Jerry D. Hedden <jdhedden@cpan.org>  
Jess Robinson <castaway@desert-island.me.uk>  
Jesse Glick <jesse@sig.bsh.com>  
Jesse  
Luehrs <doy@tozt.net>  
Jesse Vincent <jesse@fsck.com>  
Jesús Quiroga <jquiroga@pobox.com>  
Jilles Tjoelker <jilles@stack.nl>  
Jim Anderson <jander@ml.com>  
Jim Avera <avera@hal.com>

Jim Balter  
Jim Cromie <jcromie@cpan.org>  
Jim Meyering <meyering@asic.sc.ti.com>  
Jim Miner <jfm@winternet.com>  
Jim Richardson  
Jim Schneider <james.schneider@db.com>  
Jirka Hruška <jirka@fud.cz>  
Joachim Huober  
Joaquin Ferrero <explorer@joaquinferrero.com>  
Jochen Wiedmann <joe@ispsoft.de>  
Jody Belka <dev-perl@pimb.org>  
Joe Buehler <jbuehler@hekimian.com>  
Joe McMahon <mcmahon@ibiblio.org>  
Joe Orton <jorton@redhat.com>  
Joe Schaefer <joe+perl@sunstarsys.com>  
Joe Smith <jsmith@inwap.com>  
Joel Berger <joel.a.berger@gmail.com>  
Joel Rosi-Schwartz <j.schwartz@agonet.it>  
Joerg Porath <Joerg.Porath@informatik.tu-chemnitz.de>  
Joergen Haegg  
Johan Holtman  
Johan Vromans <jvromans@squirrel.nl>  
Johann Klasek <jk@auto.tuwien.ac.at>  
Johann 'Myrkraverk' Oskarsson <johann@myrkraverk.com>  
Johannes  
Plunien <plu@pqpq.de>  
John Bley <jbb6@acpub.duke.edu>  
John Borwick <jhborwic@unity.ncsu.edu>  
John Cerney <j-cerney1@ti.com>  
John D Groenvelde <groenvel@cse.psu.edu>  
John E. Malmberg <wb8tyw@qsl.net>  
John Gardiner Myers <jgmyers@proofpoint.com>  
John Goodyear <johngood@us.ibm.com>  
John Hasstedt <John.Hasstedt@sunysb.edu>  
John Hawkinson <jhawk@mit.edu>  
John Heidemann <johnh@isi.edu>  
John Holdsworth <coldwave@bigfoot.com>  
John Hughes <john@AtlanTech.COM>  
John Kristian <jmk2001@engineer.com>  
John L. Allen <allen@grumman.com>  
John Lightsey <jd@cpanel.net>  
John Macdonald <jmm@revenge.elegant.com>  
John Malmberg <wb8tyw@gmail.com>  
John Nolan <jpnolan@Op.Net>  
John P. Linderman <jpl.jpl@gmail.com>  
John Peacock <jpeacock@messagesystems.com>  
John Pfuntner <pfuntner@vnet.ibm.com>  
John Poltorak <jp@eyup.org>



John Q. Linux <jql@accessone.com>  
John Redford <jmr@whirlwind.fmr.com>  
John Rowe  
John Salinas <jsalinas@cray.com>  
John SJ Anderson <genehack@genehack.org>  
John  
Stoffel <jfs@fluent.com>  
John Stumbles <jstumbles@bluearc.com>  
John Tobey <jtobey@john-edwin-tobey.org>  
John Wright <john@johnwright.org>  
Johnny Lam <jlam@jgrind.org>  
Jon Eveland <jweveland@yahoo.com>  
Jon Gunnip <jongunnip@hotmail.com>  
Jon Orwant <orwant@oreilly.com>  
Jonathan Biggar <jon@sems.com>  
Jonathan D Johnston <jdjohnston2@juno.com>  
Jonathan Fine <jfine@borders.com>  
Jonathan Hudson <jonathan.hudson@jrudson.demon.co.uk>  
Jonathan I. Kamens <jik@kamens.brookline.ma.us>  
Jonathan Roy <roy@idle.com>  
Jonathan Stowe <jns@integration-house.com>  
Joost van Baal <J.E.vanBaal@uvt.nl>  
Jörg Walter <jwalt@cpan.org>  
Jos I. Boumans <kane@dwim.org>  
Jose Auguste-Etienne <Jose.auguste-etienne@cgss-guyane.fr>  
José Pedro Oliveira <jpo@di.uminho.pt>  
Joseph N. Hall <joseph@cscaper.com>  
Joseph S. Myers <jsm28@hermes.cam.ac.uk>  
Joshua ben Jore <jjore@cpan.org>  
Joshua Juran <jjuran@gmail.com>  
Joshua Pritikin <joshua@paloalto.com>  
Joshua  
Rodd <joshua@rodd.us>  
JT McDuffie <jt@kpc.com>  
Juan Gallego <Little.Boss@physics.mcgill.ca>  
Juerd Waalboer <#####@juerd.nl>  
Juha Laiho <juha.laiho@Elma.Net>  
Julian Yip <julian@imoney.com>  
juna <ggl.20.jj...@spamgourmet.com>  
Jungshik Shin <jshin@mailaps.org>  
Justin Banks <justinb@cray.com>  
Ka-Ping Yee <kpyee@aw.sgi.com>  
kafka <kafka@madrognon.net>  
Kang-min Liu <gugod@gugod.org>  
Kaoru Maeda <maeda@src.rioh.co.jp>  
Karen Etheridge <ether@cpan.org>  
Karl Glazebrook <kgb@aaosz.aao.GOV.AU>  
Karl Heuer <kwzh@gnu.org>

Karl Simon Berg <karl@it.kth.se>  
Karl Williamson <khw@cpan.org>  
Karsten Sperling <spiff@phreax.net>  
Karthik Rajagopalan <rajagopa@pauline.schrodinger.com>  
Kaveh Ghazi <ghazi@caip.rutgers.edu>  
KAWAI Takanori <GCD00051@nifty.ne.jp>  
Kay Röpke <kroepke@dolphin-services.de>  
Keedi Kim <keedi@cpan.org>  
Keith Neufeld <neufeld@fast.pvi.org>  
Keith Thompson <Keith.S.Thompson@gmail.com>  
Ken Brown <kbrown@cornell.edu>  
Ken Cotterill <kencotterill@netspace.net.au>  
Ken  
Estes <estes@ms.com>  
Ken Fox <kfox@ford.com>  
Ken Hirsch <kenhirsch@ftml.net>  
Ken MacLeod <ken@bitsko.slc.ut.us>  
Ken Neighbors  
Ken Shan <ken@digitas.harvard.edu>  
Ken Williams <ken@mathforum.org>  
Kenichi Ishigaki <ishigaki@cpan.org>  
Kenneth Albanowski <kjahds@kjahds.com>  
Kenneth Duda <kjd@cisco.com>  
Kent Fredric <kentfredric@gmail.com>  
Keong Lim <Keong.Lim@sr.com.au>  
Kevin Brintnall <kbrint@rufus.net>  
Kevin Chase <kevincha99@hotmail.com>  
kevin dawson <bowtie@cpan.org>  
Kevin Falcone <falcone@bestpractical.com>  
Kevin J. Woolley <kjw@pathillogical.com>  
Kevin O'Gorman <kevin.kosman@nrc.com>  
Kevin Ruscoe <Kevin.Ruscoe@ubsw.com>  
Kevin Ryde <user42@zip.com.au>  
Kevin White <klwhite@magnus.acs.ohio-state.edu>  
Kim Frutiger  
Kingpin <mthurn@copper.dulles.tasc.com>  
Kirrily Robert <skud@infotrope.net>  
Kiyotaka Sakai <ksakai@netwk.ntt-at.co.jp>  
kmx <kmx@volny.cz>  
Kragen Sitaker <kragen@pobox.com>  
Krishna Sethuraman <krishna@sgi.com>  
Kriton  
Kyrimis <kyrimis@princeton.edu>  
Kurt D. Starsinic <kstar@wolfetech.com>  
Kyriakos Georgiou  
Lajos Veres <vlajos@gmail.com>  
Larry Parmelee <parmelee@CS.Cornell.EDU>  
Larry Schuler

Larry Schwimmer <rosebud@cyclone.Stanford.EDU>  
Larry Shatzer <fugazi@zyx.net>  
Larry W. Virden <lvirden@cas.org>  
Larry Wall <larry@wall.org>  
Lars D <daxim@cpan.org>  
Lars Hecking <lhecking@nmrc.ucc.ie>  
Larwan Berke <apocal@cpan.org>  
Laszlo Molnar <laszlo.molnar@eth.ericsson.se>  
Laurent Dami <dami@cpan.org>  
Leif Huhn <leif@hale.dkstat.com>  
Len Johnson <lenjay@ibm.net>  
Leo Lapworth <leo@cuckoo.org>  
Leon Brocard <acme@astray.com>  
Leon Timmermans <fawaka@gmail.com>  
Les Peters <lpeters@aol.net>  
Lesley Binks <lesley.binks@gmail.com>  
Lincoln D. Stein <lstein@cshl.org>  
Lionel Cons <lionel.cons@cern.ch>  
Louis Strous <louis.strous@gmail.com>  
Lubomir Rintel <lkundrak@v3.sk>  
Luc St-Louis <luc.st-louis@ca.transport.bombardier.com>  
Luca Fini  
Lucas  
Holt <luke@foolishgames.com>  
Ludovic E. R. Tolhurst-Cleaver <camel@ltddev.com>  
Lukas Mai <l.mai@web.de>  
Luke Closs <lukec@cpan.org>  
Luke Ross <lukeross@gmail.com>  
Lupe Christoph <lupe@lupe-christoph.de>  
Luther Huffman <lutherh@stratcom.com>  
Maik Hentsche <maik@mm-double.de>  
Major Sébastien <sebastien.major@crdp.ac-caen.fr>  
Makoto MATSUSHITA <matusita@ics.es.osaka-u.ac.jp>  
Malcolm Beattie <mbeattie@sable.ox.ac.uk>  
Manuel Valente <mvalente@idealx.com>  
Marc Green <marcgreen@cpan.org>  
Marc Lehmann <pcg@goof.com>  
Marc Paquette <Marc.Paquette@Softimage.COM>  
Marc Simpson <marc@0branch.com>  
Marc-Philip Werner <marc-philip.werner@sap.com>  
Marcel Grünauer <marcel@codewerk.com>  
Marco Fontani <MFONTANI@cpan.org>  
Marco Peereboom <marco@conformal.com>  
Marcus Holland-Moritz <mhx-perl@gmx.net>  
Marek Rouchal <marek.rouchal@infineon.com>  
Mark A Biggar <mab@wdl.loral.com>  
Mark A. Hershberger <mah@everybody.org>  
Mark A. Stratman <stratman@gmail.com>

Mark  
Aufflick <mark@aufflick.com>  
Mark Bixby <mark@bixby.org>  
Mark Dickinson <dickins3@fas.harvard.edu>  
Mark Dootson <mdootson@cpan.org>  
Mark Fowler <mark@twoshortplanks.com>  
Mark Hanson  
Mark J. Reed <mreed@strange.turner.com>  
Mark Jason Dominus <mjd@plover.com>  
Mark K Trettin <mkt@lucent.com>  
Mark Kaehny <kaehny@execpc.com>  
Mark Kettenis <kettenis@wins.uva.nl>  
Mark Klein <mklein@dis.com>  
Mark Knutsen <knutsen@pilot.njin.net>  
Mark Kvale <kvale@phy.ucsf.edu>  
Mark Leighton Fisher <markleightonfisher@gmail.com>  
Mark Mielke <mark@mark.mielke.cc>  
Mark Murray <mark@grondar.za>  
Mark Overmeer <mark@overmeer.net>  
Mark P. Lutz <mark.p.lutz@boeing.com>  
Mark Pease <peasem@primenet.com>  
Mark Pizzolato <mark@infocomm.com>  
Mark R. Levinson <mrl@isc.upenn.edu>  
Mark Stosberg <mark@summersault.com>  
Marko Asplund <aspa@merlot.kronodoc.fi>  
Markus Jansen <Markus.Jansen@ericsson.com>  
Marnix van Ammers <marnix@gmail.com>  
Martien Verbruggen <mgjv@comdyn.com.au>  
Martijn  
Koster <mak@excitecorp.com>  
Martijn Lievaart <m@rtij.nl>  
Martin Hasch <mhasch@cpan.org>  
Martin Husemann <martin@duskware.de>  
Martin J. Bligh <mbligh@us.ibm.com>  
Martin Jost <Martin.Jost@icn.siemens.de>  
Martin Lichtin <lichtin@bivio.com>  
Martin McGrath <mcgrath.martin@gmail.com>  
Martin Plechsmid <plechsmi@karlin.mff.cuni.cz>  
Martin Pool <mbp@samba.org>  
Martti Rahkila <martti.rahkila@hut.fi>  
Marty Lucich <marty@netcom.com>  
Marty Pauley <marty+p5p@kasei.com>  
Marty Pearce <marty@inpharmatica.co.uk>  
Marvin Humphrey <marvin@rectangular.com>  
Masahiro KAJIURA <masahiro.kajiura@toshiba.co.jp>  
Mashrab Kuvatov <kmashrab@uni-bremen.de>  
Matthias Bethke <matthias@towiski.de>  
Mathias Koerber <mathias@dnssec1.singnet.com.sg>

Mathieu Arnold <m@absolight.fr>  
Mats Peterson <mats@sm6sxl.net>  
Matsumoto Yasuhiro <mattn.jp@gmail.com>  
Matt Johnson <matt.w.johnson@gmail.com>  
Matt Kimball  
Matt Kraai <kraai@ftbfs.org>  
Matt S Trout <mst@shadowcat.co.uk>  
Matt Sergeant <matt@sergeant.org>  
Matt  
Taggart <taggart@debian.org>  
Matthew Black <black@csulb.edu>  
Matthew Green <mrg@splode.eterna.com.au>  
Matthew Horsfall <wolfsage@gmail.com>  
Matthew Sachs <matthewg@zevils.com>  
Matthew T Harden <mthard@mthard1.monsanto.com>  
Matthias Ulrich Neeracher <neeracher@mac.com>  
Matthias Urlichs <smurf@noris.net>  
Matthijs van Duin <xmath@cpan.org>  
Mattia Barbon <mbarbon@dsi.unive.it>  
Maurizio Loreti <maurizio.loreti@pd.infn.it>  
Max Baker <max@warped.org>  
Max Maischein <corion@corion.net>  
Maxwell Carey <maxwellhaydn@gmail.com>  
Merijn Broeren <merijnb@iloquent.nl>  
Michael A Chase <mchase@ix.netcom.com>  
Michael Breen <perl@mbreen.com>  
Michael Bunk <bunk@iat.uni-leipzig.de>  
Michael Carman <mjcarman@home.com>  
Michael Cook <mcook@cognex.com>  
Michael Cummings <mcummings@gentoo.org>  
Michael De La Rue <mikedlr@tardis.ed.ac.uk>  
Michael Engel <engel@nms1.cc.huji.ac.il>  
Michael Fig <michael@liveblockauctions.com>  
Michael G Schwern <schwern@pobox.com>  
Michael  
H. Moran <mhm@austin.ibm.com>  
Michael King <mike808@users.sourceforge.net>  
Michael Lemke <lemkemch@t-online.de>  
Michael Mahan <mahanm@nextwork.rose-hulman.edu>  
Michael Parker <michael.parker@st.com>  
Michael Schroeder <Michael.Schroeder@informatik.uni-erlangen.de>  
Michael Somos <somos@grail.cba.csuohio.edu>  
Michael Stevens <mstevens@etla.org>  
Michael van Elst <mlelstv@serpens.de>  
Michael Witten <mfwitten@gmail.com>  
Michele Sardo  
Mik Firestone <fireston@lexmark.com>  
Mike Doherty <mike@mikedoherty.ca>

Mike Fletcher <fletch@phydeaux.org>  
Mike Giroux <rmgiroux@acm.org>  
Mike Guy <mjtg@cam.ac.uk>  
Mike Heins <mike@bill.iac.net>  
Mike Hopkirk <hops@sco.com>  
Mike Kelly <pioto@pioto.org>  
Mike Mestnik <MMestnik@rustconsulting.com>  
Mike Pomraning <mjp@pilcrow.madison.wi.us>  
Mike Rogers  
Mike Schilli <m@perlmeister.com>  
Mike Sheldrake <mike@sheldrake.net>  
Mike Stok <mike@stok.co.uk>  
Mike W Ellwood <mwe@rl.ac.uk>  
Mikhail Zabaluev <mhz@alt-linux.org>  
Milosz  
Tanski <mtanski@gridapp.com>  
Milton L. Hankins <mlh@swl.msd.ray.com>  
Misty De Meo <mistydemeo@github.com>  
Mohammed El-Afifi <mohammed\_elafifi@yahoo.com>  
Moritz Lenz <moritz@casella.verplant.org>  
Moshe Kaminsky <kaminsky@math.huji.ac.il>  
Mottaqui Karim <taqqi.karim@gmail.com>  
Mr. Nobody <mrnobo1024@yahoo.com>  
Murray Nesbitt <murray@nesbitt.ca>  
Nathan Glenn <garfieldnate@gmail.com>  
Nathan Kurz <nate@valleytel.net>  
Nathan Torkington <gnat@frii.com>  
Nathan Trapuzzano <nbtrap@nbtrap.com>  
Neale Ferguson <neale@VMA.TABNSW.COM.AU>  
Neil Bowers <neil@bowers.com>  
Neil Watkiss <neil.watkiss@sophos.com>  
Neil Williams <codehelp@debian.org>  
Nicholas Clark <nick@ccl4.org>  
Nicholas Oxhøj  
Nicholas Perez <nperez@cpan.org>  
Nick Cleaton <nick@cleaton.net>  
Nick Duffek  
Nick Gianniotis  
Nick Ing-Simmons  
Nick Johnston <nickjohnstonsky@gmail.com>  
Nick Logan <ugexe@cpan.org>  
Nick Williams <Nick.Williams@morganstanley.com>  
Nicolas Kaiser <nikai@nikai.net>  
Nicolas  
R. <atomic@cpan.org>  
Niels Thykier <niels@thykier.net>  
Nigel Sandever <njsandever@hotmail.com>  
Niko Tyni <ntyini@debian.org>

Nikola Knezevic <indy@tesla.rcub.bg.ac.yu>  
Nikola Milutinovic  
Nikolai Eipel <eipel@web.de>  
Noah <sitz@onastick.net>  
Nobuhiro Iwamatsu  
Noirin Shirley <colmsbook@nerdchic.net>  
Norbert Pueschel <pueschel@imsdd.meb.uni-bonn.de>  
Norio Suzuki <kipp@shonanblue.ne.jp>  
Norman Koch <kochnorman@rocketmail.com>  
Norton T. Allen <allen@huarp.harvard.edu>  
Nuno Carvalho <mestre.smash@gmail.com>  
Offer Kaye <offer.kaye@gmail.com>  
Olaf Flebbe <o.flebbe@science-computing.de>  
Olaf Titz <olaf@bigred.inka.de>  
Oleg Nesterov <oleg@redhat.com>  
Olivier Blin <blino@mandriva.com>  
Olivier Mengué <dolmen@cpan.org>  
Olivier Thauvin <olivier.thauvin@aerov.jussieu.fr>  
Olli Savia  
Ollivier Robert <roberto@keltia.freenix.fr>  
Osvaldo Villalon <ovillalon@dextratech.com>  
Owain G. Ainsworth <oga@nicotinebsd.org>  
Owen Taylor <owt1@cornell.edu>  
Pali <pali@cpan.org>  
Papp  
Zoltan <padre@elte.hu>  
parv <parv@pair.com>  
Pascal Rigaux <pixel@mandriva.com>  
Patrick Donelan <pat@patspam.com>  
Patrick Dugnolle <patrick.dugnolle@bnpparibas.com>  
Patrick Hayes <Patrick.Hayes.CAP\_SESA@renault.fr>  
Patrick O'Brien <pdo@cs.umd.edu>  
Patrik Hägglund <patrik.h.hagglund@ericsson.com>  
Pau Amma <pauamma@gundo.com>  
Paul A Sand <pas@unh.edu>  
Paul Boven <p.boven@sara.nl>  
Paul David Fardy <pdf@morgan.ucs.mun.ca>  
Paul Eggert <eggert@twinsun.com>  
Paul Evans <leonerdd@leonerdd.org.uk>  
Paul Fenwick <pjf@perltraining.com.au>  
Paul Gaborit <paul.gaborit@enstimac.fr>  
Paul Green <Paul.Green@stratus.com>  
Paul Hoffman <phoffman@proper.com>  
Paul Holser <Paul.Holser.pholser@nortelnetworks.com>  
Paul Johnson <paul@pjcj.net>  
Paul Lindner <lindner@inuus.com>  
Paul Marquess <paul.marquess@btinternet.com>  
Paul Moore <Paul.Moore@uk.origin-it.com>

Paul Rogers <Paul.Rogers@Central.Sun.COM>  
Paul Saab <ps@yahoo-inc.com>  
Paul Schinder <schinder@pobox.com>  
Paul  
Szabo <psz@maths.usyd.edu.au>  
Pavel Kakovský <kan@dcit.cz>  
Pavel Zakouril <Pavel.Zakouril@mff.cuni.cz>  
Pedro Felipe Horrillo Guerra <pancho@pancho.name>  
Per Einar Ellefsen <per.einar@skynet.be>  
Perlover <perlover@perlover.com>  
Pete Peterson <peteronp@genrad.com>  
Peter Avalos <peter@theshell.com>  
Peter BARABAS  
Peter Chines <pchines@nhgri.nih.gov>  
Peter Dintelmann <Peter.Dintelmann@Dresdner-Bank.com>  
Peter E. Yee <yee@trident.arc.nasa.gov>  
Peter Gessner <peter.gessner@post.rwth-aachen.de>  
Peter Gordon <peter@valor.com>  
Peter Haworth <pmh@edison.ioppublishing.com>  
Peter J. Farley III <pjfarley@banet.net>  
Peter J. Holzer <hjp@hjp.at>  
Peter Jaspers-Fayer  
Peter John Acklam <pjacklam@online.no>  
Peter Martini <PeterCMartini@GMail.com>  
Peter O'Gorman <peter@pogma.com>  
Peter Prymmer <PPrymmer@factset.com>  
Peter Rabbitson <ribasushi@cpan.org>  
Peter Scott <Peter@PSDT.com>  
Peter Valdemar Mørch <pm@capmon.dk>  
Peter van Heusden <pvh@junior.uwc.ac.za>  
Peter  
Wolfe <wolfe@teloseng.com>  
Petr Písa <ppisar@redhat.com>  
Petter Reinholdtsen <pere@hungry.com>  
Phil Lobbes <phil@perkpartners.com>  
Phil Monsen <philip.monsen@pobox.com>  
Phil Pearl (Lobbes) <plobbes@gmail.com>  
Philip Boulain <philip.boulain@smoothwall.net>  
Philip Guenther <guenther@openbsd.org>  
Philip Hazel <ph10@cus.cam.ac.uk>  
Philip M. Gollucci <pgollucci@p6m7g8.com>  
Philip Newton <pne@cpan.org>  
Philippe Bruhat (Book) <book@cpan.org>  
Philippe M. Chiasson <gozer@ActiveState.com>  
Pierre Bogossian <bogossian@mail.com>  
Piers Cawley <pdcauley@bofh.org.uk>  
Pino Toscano <pino@debian.org>  
Piotr Fusik <pfusik@op.pl>



Piotr Klaban <makler@oryl.man.torun.pl>  
Piotr Roszatycki <piotr.roszatycki@gmail.com>  
Pip Cet <pipcet@gmail.com>  
Pradeep Hodigere <phodigere@yahoo.com>  
Prymmer/Kahn <pvhp@best.com>  
Quentin Fennessy <quentin@arrakeen.amd.com>  
Radu Greab <radu@netsoft.ro>  
Rafael Garcia-Suarez <rgs@consttype.org>  
Rainer Keuchel <keuchel@allgeier.com>  
Rainer  
Orth <ro@TechFak.Uni-Bielefeld.DE>  
Rainer Tammer <tammer@tammer.net>  
Rajesh Mandalemula <rajesh.mandalemula@deshaw.com>  
Rajesh Vaidheeswarran <rv@gnu.org>  
Ralf S. Engelschall <rse@engelschall.com>  
Randal L. Schwartz <merlyn@stonehenge.com>  
Randall Gellens <randy@qualcomm.com>  
Randolf Werner <randolf.werner@sap.com>  
Randy J. Ray <rjray@redhat.com>  
Randy Stauner <rwstauner@cpan.org>  
Randy W. Sims  
Raphael Manfredi <Raphael.Manfredi@pobox.com>  
Raul Dias <raul@dias.com.br>  
Raymund Will <ray@caldera.de>  
Redvers Davies <red@criticalintegration.com>  
Reini Urban <rurban@cpan.org>  
Renee Baecker <module@renee-baecker.de>  
Reuben Thomas <rrt@sc3d.org>  
Rex Dieter <rdieter@math.unl.edu>  
Rhesa Rozendaal <perl@rhesa.com>  
Ricardo Signes <rjbs@cpan.org>  
Rich Morin <rdm@cfcl.com>  
Rich Rauenzahn <rrauenza@hp.com>  
Rich Salz <rsalz@bbn.com>  
Richard A. Wells <Rwells@uhs.harvard.edu>  
Richard Clamp <richardc@unixbeard.net>  
Richard Foley <richard.foley@rfi.net>  
Richard  
Hatch <rhatch@austin.ibm.com>  
Richard Hitt <rbh00@utsglobal.com>  
Richard Kandarian <richard.kandarian@lanl.gov>  
Richard L. England <richard\_england@mentorg.com>  
Richard L. Maus, Jr. <rmaus@monmouth.com>  
Richard Leach <rich+perl@hyphen-dash-hyphen.info>  
Richard Levitte <levitte@openssl.org>  
Richard Möhn <richard.moehn@fu-berlin.de>  
Richard Ohnemus <richard\_ohnemus@dallas.csd.sterling.com>  
Richard Soderberg <p5-authors@crystalflame.net>

Richard Yeh <rcyeh@cco.caltech.edu>  
Rick Delaney <rick@consumercontact.com>  
Rick Pluta  
Rick Smith <ricks@sd.znet.com>  
Rickard Westman  
Rob Brown <bbb@cpan.org>  
Rob Henderson <robh@cs.indiana.edu>  
Rob Hoelz <rob@hoelz.ro>  
Rob Napier <rnapiet@employees.org>  
Robert May <robertmay@cpan.org>  
Robert Millan <rmh@debian.org>  
Robert Partington <rjp@riffraff.plig.net>  
Robert Sanders <Robert.Sanders@linux.org>  
Robert Sebastian Gerus <arachnist@gmail.com>  
Robert Spier <rspier@pobox.com>  
Roberto  
C. Sanchez <roberto@connexer.com>  
Robin Barker <RMBarker@cpan.org>  
Robin Houston <robin@cpan.org>  
Rocco Caputo <troc@netrus.net>  
Roderick Schertler <roderick@argon.org>  
Rodger Anderson <rodger@boi.hp.com>  
Rodolfo Carvalho <rhcarvalho@gmail.com>  
Ronald F. Guilmette <rfg@monkeys.com>  
Ronald J. Kimball <rjk@linguist.dartmouth.edu>  
Ronald Schmidt <RonaldWS@aol.com>  
Rostislav Skudnov <skrostislav@gmail.com>  
Ruben Schattevoy <schattev@imb-jena.de>  
Rudolph Todd Maceyko <rm55+@pitt.edu>  
Rujith S. de Silva <desilva@netbox.com>  
Ruslan Zakirov <ruz@bestpractical.com>  
Russ Allbery <rra@stanford.edu>  
Russel O'Connor <roconnor@world.std.com>  
Russell Fulton <russell@ccu1.auckland.ac.nz>  
Russell Mosemann <mose@ccsn.edu>  
Ryan Herbert <rherbert@sycamorehq.com>  
Ryan Voots <simcop2387@simcop2387.info>  
Salvador Fandiño <sfandino@yahoo.com>  
Salvador Ortiz Garcia <sog@msg.com.mx>  
Sam Kimbrel <kimbrel@me.com>  
Sam Tregar <sam@tregar.com>  
Sam Vilain <sam@vilain.net>  
Samuel  
Thibault <sthibault@debian.org>  
Samuli Kärkkäinen <skarkkai@woods.iki.fi>  
Sawyer X <xsawyerx@cpan.org>  
Schuyler Erle <schuyler@oreilly.com>  
Scott A Crosby <scrosby@cs.rice.edu>

Scott Bronson <bronson@rinspin.com>  
Scott Gifford <sgifford@tir.com>  
Scott Henry <scotth@sgi.com>  
Scott L. Miller <Scott.L.Miller@Compaq.com>  
Scott Lanning <lannings@who.int>  
Scott Wiersdorf <scott@perlcode.org>  
Sean Boudreau <seanb@qnx.com>  
Sean Dague <sean@dague.net>  
Sean Davis <dive@ender.com>  
Sean M. Burke <sburke@cpan.org>  
Sean Robinson <robinson\_s@sc.maricopa.edu>  
Sean Sheedy <seans@ncube.com>  
Sebastian Schmidt <yath@yath.de>  
Sebastian Steinlechner <steinlechner@gmx.net>  
Sebastian Wittmeier <Sebastian.Wittmeier@ginko.de>  
Sébastien Aperghis-Tramoni <saper@cpan.org>  
Sebastien Barre <Sebastien.Barre@utc.fr>  
Sergey Alekseev <varnie29a@mail.ru>  
Sergey Aleynikov <sergey.aleynikov@gmail.com>  
Sérgio Durigan Júnior <sergiodj@linux.vnet.ibm.com>  
Shawn <svicalifornia@gmail.com>  
Shawn  
M Moore <sartak@gmail.com>  
Sherm Pendley <sherm@dot-app.org>  
Shigeya Suzuki <shigeya@wide.ad.jp>  
Shimpei Yamashita <shimpei@socrates.patnet.caltech.edu>  
Shinya Hayakawa <hayakawa@livedoor.jp>  
Shirakata Kentaro <argrath@ub32.org>  
Shishir Gundavaram <shishir@ruby.ora.com>  
Shlomi Fish <shlomif@cpan.org>  
Shoichi Kaji <skaji@cpan.org>  
Simon Cozens <simon@netthink.co.uk>  
Simon Glover <scog@roe.ac.uk>  
Simon Leinen  
Simon Parsons <S.Parsons@ftel.co.uk>  
Simon Schubert <corecode@fs.ei.tum.de>  
Sinan Unur <sinan@unur.com>  
Sisyphus <sisyphus@cpan.org>  
Slaven Rezic <slaven@rezic.de>  
Smylers <smylers@stripey.com>  
Solar Designer <solar@openwall.com>  
Spider Boardman <spider@orb.nashua.nh.us>  
Spiros Denaxas <s.denaxas@gmail.com>  
Sreeji K Das <sreeji\_k@yahoo.com>  
Stanislaw Pusep <stas@sysd.org>  
Stas Bekman <stas@stason.org>  
Stefan Seifert <nine@detonation.org>  
Steffen Müller <smueller@cpan.org>

Steffen Schwigon <ss5@renormalist.net>  
Steffen  
Ullrich <coyote.frank@gmx.net>  
Stepan Kasal <skasal@redhat.com>  
Stéphane Payrard <stef@mongueurs.net>  
Stephanie Beals <bealzy@us.ibm.com>  
Stephen Bennett <sbp@exherbo.com>  
Stephen Clouse <stephenc@theiqgroup.com>  
Stephen McCamant <smcc@mit.edu>  
Stephen O. Lidie <lusol@turkey.cc.Lehigh.EDU>  
Stephen Oberholtzer <oliverklozoff@gmail.com>  
Stephen P. Potter <spp@ds.net>  
Stephen Zander <gibreel@pobox.com>  
Stevan Little <stevan@cpan.org>  
Steve A Fink <sfink@cs.berkeley.edu>  
Steve Grazzini <grazz@pobox.com>  
Steve Hay <steve.m.hay@googlemail.com>  
Steve Kelem <steve.kelem@xilinx.com>  
Steve McDougall <swmcd@world.std.com>  
Steve Nielsen <spn@enteract.com>  
Steve Pearlmutter  
Steve Peters <steve@fisharerojo.org>  
Steve Purkis <Steve.Purkis@multimap.com>  
Steve Vinoski  
Steven Hirsch <hirschs@btv.ibm.com>  
Steven Humphrey <catchperl@33k.co.uk>  
Steven Knight <knight@theopera.baldmt.citilink.com>  
Steven Morlock <newspost@morlock.net>  
Steven N. Hirsch <hirschs@stargate.btv.ibm.com>  
Steven  
Parkes <parkes@sierravista.com>  
Steven Schubiger <schubiger@cpan.org>  
Stian Seeberg <sseeberg@nimsoft.no>  
Sullivan Beck <sbeck@cpan.org>  
Sven Strickroth <sven.strickroth@tu-clausthal.de>  
Sven Verdoolaege <skimo@breughel.ufsia.ac.be>  
syber <syber@crazypanada.ru>  
SynaptiCAD, Inc. <sales@syncad.com>  
Tadeusz Sosnierz <tadeusz.sosnierz@onet.pl>  
Takis Psarogiannakopoulos <takis@xfree86.org>  
Taro KAWAGISHI  
Tassilo von Parseval <tassilo.parseval@post.rwth-aachen.de>  
Tatsuhiko Miyagawa <miyagawa@bulknews.net>  
Ted Ashton <ashted@southern.edu>  
Ted Law <tedlaw@cibcwg.com>  
Tels <nospam-abuse@bloodgate.com>  
Teun Burgers <burgers@ecn.nl>  
Thad Floryan <thad@thadlabs.com>

Theo Buehler <theo@math.ethz.ch>  
Thomas Bowditch <bowditch@inmet.com>  
Thomas Conté <tom@fr.uu.net>  
Thomas Dorner <Thomas.Dorner@start.de>  
Thomas Kofler  
Thomas König  
Thomas Pfau <pfau@nbpfaus.net>  
Thomas Sibley <tsibley@cpan.org>  
Thomas Wegner <wegner\_thomas@yahoo.com>  
Thorsten  
Glaser <tg@mirbsd.org>  
Tim Adye <T.J.Ady@rl.ac.uk>  
Tim Ayers <tayers@bridge.com>  
Tim Bunce <Tim.Bunce@pobox.com>  
Tim Conrow <tim@spindrift.srl.caltech.edu>  
Tim Freeman <tfreeman@infoseek.com>  
Tim Jenness <tjenness@cpan.org>  
Tim Mooney <mooney@dogbert.cc.ndsu.NoDak.edu>  
Tim Sweetman <tim@aldigital.co.uk>  
Tim Witham <twitham@pcocd2.intel.com>  
Timothe Litt <litt@acm.org>  
Timur I. Bakeyev <bsdi@listserv.bat.ru>  
Tina Müller <cpan2@tinita.de>  
Tkil <tkil@reptile.scrye.com>  
Tobias Leich <email@froggs.de>  
Toby Inkster <mail@tobyinkster.co.uk>  
Todd C. Miller <Todd.Miller@courtesan.com>  
Todd Rinaldo <toddr@cpan.org>  
Todd T. Fries <todd@fries.int.mrleng.com>  
Todd Vierling <tv@duh.org>  
Tokuhiro Matsuno <tokuhirom@gmail.com>  
Tom Bates <tom\_bates@att.net>  
Tom Brown <thecap@peach.ece.utexas.edu>  
Tom Christiansen <tchrist@perl.com>  
Tom Dinger  
Tom Horsley <Tom.Horsley@mail.ccur.com>  
Tom Hughes <tom@compton.nu>  
Tom Hukins <tom@eborcom.com>  
Tom  
Phoenix <rootbeer@teleport.com>  
Tom Spindler <dogcow@isi.net>  
Tom Wyant <wyant@cpan.org>  
Tomasz Konojacki <me@xenu.pl>  
Tomoyuki Sadahiro <BQW10602@nifty.com>  
Ton Hospel <cpan@ton.iguana.be>  
Tony Bowden <tony@kasei.com>  
Tony Camas  
Tony Cook <tony@develop-help.com>

Tony Sanders <sanders@bsdi.com>  
Tor Lillqvist <tml@hemuli.tte.vtt.fi>  
Torsten Foertsch <torsten.foertsch@gmx.net>  
Torsten Schönfeld <kaffeetisch@gmx.de>  
Trevor Blackwell <tlb@viaweb.com>  
Tutomu IKEGAMI <t-ikegami@aist.go.jp>  
Tuomas J. Lukka <tjl@lukka.student.harvard.edu>  
Tye McQueen <tye@metronet.com>  
Ulrich Habel <rhaen@NetBSD.org>  
Ulrich Kunitz <kunitz@mai-koeln.com>  
Ulrich Pfeifer <pfeifer@wait.de>  
Unicode Consortium <unicode.org>  
Vadim Konovalov <vkonovalov@lucent.com>  
Valeriy E. Ushakov <uwe@ptc.spbu.ru>  
Vernon Lyon <vlyon@cpan.org>  
Victor Adam <victor@drawall.cc>  
Victor Efimov <victor@vsespb.ru>  
Viktor Turskyi <koorchik@gmail.com>  
Ville Skyttä <scop@cs132170.pp.htv.fi>  
Vincent  
Pit <perl@province.com>  
Vishal Bhatia <vishal@deja.com>  
Vitali Peil <vitali.peil@uni-bielefeld.de>  
Vlad Harchev <hvv@hippo.ru>  
Vladimir Alexiev <vladimir@cs.ualberta.ca>  
Vladimir Marek <vlmarek@volny.cz>  
Vladimir Timofeev <vovkasm@gmail.com>  
Volker Schatz <perldoc@volkerschatz.com>  
W. Geoffrey Rommel <grommel@sears.com>  
W. Phillip Moore <wpm@ms.com>  
Wallace Reis <wreis@cpan.org>  
Walt Mankowski <waltman@pobox.com>  
Walter Briscoe <w.briscoe@ponl.com>  
Warren Hyde <whyde@pezz.sps.mot.com>  
Warren Jones <wjones@tc.fluke.com>  
Wayne Berke <berke@panix.com>  
Wayne Scott <wscott@ichips.intel.com>  
Wayne Thompson <Wayne.Thompson@Ebay.sun.com>  
Wilfredo Sánchez <wsanchez@mit.edu>  
William J. Middleton <William.Middleton@oslo.mobil.telenor.no>  
William Mann <wmann@avici.com>  
William Middleton <wmiddlet@adobe.com>  
William R Ward <hermit@BayView.COM>  
William Setzer <William\_Setzer@ncsu.edu>  
William Williams <biwillia@cisco.com>  
William Yardley <perlbug@veggiechinese.net>  
Winfried

König <win@in.rhein-main.de>  
Wolfgang Laun <Wolfgang.Laun@alcatel.at>  
Wolfram Humann <w.c.humann@arcor.de>  
Xavier Noria <fxn@hashref.com>  
YAMASHINA Hio <hio@ymir.co.jp>  
Yaroslav Kuzmin <ykuzmin@rocketsoftware.com>  
Yary Hluchan  
Yasushi Nakajima <sey@jkc.co.jp>  
Yitzchak Scott-Thoennes <sthoenna@efn.org>  
Yutaka OIWA <oiwa@is.s.u-tokyo.ac.jp>  
Yutaka OKAIE  
Yutao Feng  
Yuval Kogman <nothingmuch@woobling.org>  
Yves Orton <demerphq@gmail.com>  
Zachary Miller <zcmiller@simon.er.usgs.gov>  
Zachary Storer <zacts.3.14159@gmail.com>  
Zak B. Elep <zakame@zakame.net>  
Zbynek Vyskovsky <kvr@centrum.cz>  
Zefram <zefram@fysh.org>  
Zsbán Ambrus <ambrus@math.bme.hu>  
Ævar Arnfjörð Bjarmason <avar@cpan.org>

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```
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```

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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

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## 1.383 python-setuptools 45.2.0 1

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

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

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

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 from	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
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Upstream-Name: liblz4

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

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

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@var{one line to give the program's name and a brief idea of what it does.}

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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:

```
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This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

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

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@c man end

```
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Any

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DRuntime: Runtime Library for the D Programming Language

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@heading TERMS AND CONDITIONS

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@item

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@smallexample

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```
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Version 3, 29 June 2007

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package.

Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

<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-dev	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
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Written by Tobias Burnus <burnus@net-b.de>

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- \* Conversion to long double by Ulrich Drepper,
- \* Cygnus Support, drepper@cygnus.com.

cosq\_kernel.c, expq.c, sincos\_table.c, sincosq.c, sincosq\_kernel.c, sinq\_kernel.c, truncq.c:

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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.

The D front-end for GCC:

- d/\*

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The DMD Compiler implementation of the D programming language:

- 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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gcc/gm2/ulm-lib-gm2/std/M2RTS.mod:

gcc/gm2/ulm-lib-gm2/std/Storage.mod:

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./gm2-libs/sckt.def:  
./gm2-libs/Indexing.def:  
./gm2-libs/Builtins.mod:  
./gm2-libs/SFIO.mod:  
./gm2-libs/MathLib0.mod:  
./gm2-libs/gdbif.mod:  
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Library module defined by the International Standard  
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Upstream Authors:

newlib@sources.redhat.com

Jeff Johnston <jjohnstn@redhat.com>

Tom Fitzsimmons <fitzsim@redhat.com>

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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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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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```
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## 1.394 expat 2.2.9 1ubuntu0.4

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Upstream-Name: Expat

Upstream-Contact: Sebastian Pipping <sebastian@pipping.org>

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/\* Miniature re-implementation of the "check" library.

This is intended to support just enough of check to run the Expat

tests. This interface is based entirely on the portion of the check library being used.

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  | | XML parser
```

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=====

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# 1.396 py3-packaging 21.3-r0

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# 1.397 py3-six 1.16.0-r1

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## 1.399 py3-contextlib 21.6.0-r2

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=====

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

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

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2.5.3	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
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3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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## 1.402 py3-ordered-set 4.0.2-r3

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## 1.403 nghttp2 1.47.0-r0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.404 py3-appdirs 1.4.4-r3

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## 1.405 gdbm 1.23-r0

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Version 3, 29 June 2007

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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
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Alex Dowad  
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## 1.409 python-setuptools 44.0.0

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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>.

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### THE BASIC LIBRARY FUNCTIONS

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

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# 1.423 pkg\_resources 0.0.0

## 1.423.1 Available under license :

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

Metadata-Version: 2.0

Name: pkg\_resources

Version: 0.0.0

Summary: UNKNOWN  
Home-page: UNKNOWN  
Author: UNKNOWN  
Author-email: UNKNOWN  
License: UNKNOWN  
Platform: UNKNOWN

UNKNOWN

Found in path(s):

\* /opt/cola/permits/1320410882\_1651537966.27/0/pkg-resources-0-0-0-dist-info-  
zip/inputdir/packages\_extracted/wheel/103/pkg\_resources-0.0.0.dist-info/METADATA

## 1.424 more-itertools 8.13.0

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## 1.425 glibc 2.31-0ubuntu9.9

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/\* Test program for the gcc interface.

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pycparser -- A C parser in Python

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## 1.431 errors 0.9.1

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Protocol Buffers for Go with Gadgets

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

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Anton Povarov <[anton.povarov@gmail.com](mailto:anton.povarov@gmail.com)>

Brian Goff <[cpuguy83@gmail.com](mailto:cpuguy83@gmail.com)>

Clayton Coleman <[ccoleman@redhat.com](mailto:ccoleman@redhat.com)>

Denis Smirnov <[denis.smirnov.91@gmail.com](mailto:denis.smirnov.91@gmail.com)>

DongYun Kang <[ceram1000@gmail.com](mailto:ceram1000@gmail.com)>

Dwayne Schultz <[dschultz@pivotal.io](mailto:dschultz@pivotal.io)>

Georg Apitz <[gapitz@pivotal.io](mailto:gapitz@pivotal.io)>

Gustav Paul <[gustav.paul@gmail.com](mailto:gustav.paul@gmail.com)>

Johan Brandhorst <johan.brandhorst@gmail.com>  
John Shahid <jvshahid@gmail.com>  
John Tuley <john@tuley.org>  
Laurent <laurent@adyoulike.com>  
Patrick Lee <patrick@dropbox.com>  
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Roger Johansson <rogeralsing@gmail.com>  
Sam Nguyen <sam.nguyen@sendgrid.com>  
Sergio Arbeo <serabe@gmail.com>  
Stephen J Day <stephen.day@docker.com>  
Tamir Duberstein <tamird@gmail.com>  
Todd Eisenberger <teisenberger@dropbox.com>  
Tormod Erevik Lea <tormodlea@gmail.com>  
Vyacheslav Kim <kane@sendgrid.com>  
Walter Schulze <awalterschulze@gmail.com>

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## 1.438 xxhash 2.1.1

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## 1.439 go-resiliency 1.2.0

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## 1.441 toml 0.3.1

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## 1.448 gokrb5 8.4.2

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```
## zlib v1.2.11
```

```
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```
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```
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```
### Unicode Character Database
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```
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Chandler Carruth <chandlerc@google.com>  
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Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
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Hady Zalek <hady.zalek@gmail.com>  
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Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
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Markus Heule <markus.heule@gmail.com>

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Pasi Valminen <pasi.valminen@gmail.com>  
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include/GL/gl.h :

Mesa 3-D  
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include/GL/glxext.h  
include/GL/wglxext.h :

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Chandler Carruth <chandlerc@google.com>  
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Dan Egnor <egnor@google.com>  
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Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
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Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
Mikls Fazekas <mfazekas@szemafor.com>  
Pasi Valminen <pasi.valminen@gmail.com>  
Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
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include/GL/gl.h :

Mesa 3-D  
graphics library

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include/GL/glxext.h  
include/GL/wglxext.h :

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## 1.457 python-pip 22.1.1

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
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@(#) \$RCSfile: certdata.txt,v \$

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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
2.7	2.6	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice

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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.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes



2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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## 1.459 py3-pep 0.12.0-r2

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# 1.462 bash 5.1.16-r2

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```

```
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Authors/contributors include:

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Ada Worcester  
Alex Dowad  
Alex Suykov  
Alexander Monakov  
Andre McCurdy  
Andrew Kelley  
Anthony G. Basile  
Aric Belsito  
Arvid Picciani  
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Drew DeVault  
Emil Renner Berthing  
Fangrui Song  
Felix Fietkau  
Felix Janda  
Gianluca Anzolin

Hauke Mehrrens  
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Hiltjo Posthuma  
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Jaydeep Patil  
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src/bsd\_getopt.c

src/err.c

src/fgetln.c

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man/bitstring.3bsd

man/errc.3bsd

man/explicit\_bzero.3bsd

man/fgetln.3bsd

man/fgetwln.3bsd

man/fpurge.3bsd

man/funopen.3bsd

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man/heapsort.3bsd

man/nlist.3bsd

man/pwcache.3bsd

man/queue.3bsd

man/radixsort.3bsd

man/reallocarray.3bsd

man/reallocf.3bsd

man/setmode.3bsd

man/strmode.3bsd

man/strnstr.3bsd

man/strtoi.3bsd

man/strtou.3bsd

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man/vis.3bsd

man/wcsncpy.3bsd

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src/arc4random\_uniform.c

src/arc4random\_unix.h

src/arc4random\_win.h  
src/closefrom.c  
src/freezero.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  
src/getentropy\_win.c  
src/readpassphrase.c  
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## @subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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@item

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@item

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

@end enumerate

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item

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

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

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@item

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during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

@item

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

@item

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

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

@item

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

@end enumerate

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for



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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@end  
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@var{signature of Ty Coon}, 1 April 1990  
Ty Coon, President of Vice  
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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@item

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Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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@end smallexample

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

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

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commands you use may be called something other than @samp{show w} and  
@samp{show c}; they could even be mouse-clicks or menu items---whatever  
suits your program.

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

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

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

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Version 3, 29 June 2007

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## 1.475 py3-pip 22.1.1-r0

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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:

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes

2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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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
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2.6.3	2.6.2	2009	PSF	yes
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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
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Written by: Philip Hazel  
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## 1.482 libidn 2.3.2-r2

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# 1.483 apt 2.0.9

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## 1.485 libsepol 3.0 1ubuntu0.1

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## 1.486 xz 5.2.4 1ubuntu1.1

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

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Comment:

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Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

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[...]

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

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Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

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Origin: gettext-runtime/po/Makevars (gettext-0.12)

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readline/doc/history.texi (GNU History Library Manual)

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support/man2html.c

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```
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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```

```
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```

Aarti Parikh <aarti.parikh@gmail.com>  
Abdullah Al Maruf <mymail.maruf@gmail.com>  
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Adam Langley <agl@golang.org>  
Adam Medzinski <adam.medzinski@gmail.com>  
Adam Shannon <adamkshannon@gmail.com>  
Adam Shelton <aashelt90@gmail.com>  
Adam Sindelar <adamsh@google.com>  
Adam Thomason <athomason@gmail.com>  
Adam  
Williams <pwnfactory@gmail.com>  
Adam Woodbeck <adam@woodbeck.net>  
Adarsh Ravichandran <adarshravichandran91@gmail.com>  
Aditya Harindar <aditya.harindar@gmail.com>  
Aditya Mukerjee <dev@chimeracoder.net>  
Adrian Hesketh <adrianhesketh@hushmail.com>  
Adrian Nos <nos.adrian@gmail.com>  
Adrian O'Grady <elpollouk@gmail.com>  
Adrien Bustany <adrien-xx-google@bustany.org>  
Adrien Petel <peteladrien@gmail.com>  
Acio Jnior <aeciodantasjunior@gmail.com>  
Aeneas Rekkas (arekkas) <aeneas@ory.am>  
Afanasev Stanislav <phpprogger@gmail.com>  
Agis Anastasopoulos <agis.anast@gmail.com>  
Agniva De Sarker <agnivade@yahoo.co.in>  
Ahmed Wahed <oneofone@gmail.com>  
Ahmet Alp Balkan <ahmetb@google.com>  
Ahmet Soormally <ahmet@mangomm.co.uk>  
Ahmy Yulrizka <yulrizka@gmail.com>  
Ahsun Ahmed <ahmed.ahsun@gmail.com>  
Aiden Scandella <ai@uber.com>  
Ainar Garipov <gugl.zadolbal@gmail.com>  
Aishraj Dahal <aishraj@users.noreply.github.com>  
Akhil Indurti <aindurti@gmail.com>  
Akihiro Suda <suda.kyoto@gmail.com>  
Akshat Kumar <seed@mail.nanosouffle.net>  
Al  
Cutter <al@google.com>  
Alan Braithwaite <alan@ipaddr.org>  
Alan Donovan <adonovan@google.com>  
Alan Shreve <alan@inconshreveable.com>  
Albert Nigmatzianov <albertnigma@gmail.com>

Albert Strasheim <fullung@gmail.com>  
Albert Teoh <albert.teoh@gmail.com>  
Albert Yu <yukinying@gmail.com>  
Alberto Bertogli <albertito@blitiri.com.ar>  
Alberto Donizetti <alb.donizetti@gmail.com>  
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>  
Alec Benzer <alec.benzer@gmail.com>  
Aleksa Sarai <cyphar@cyphar.com>  
Aleksandar Dezelin <dezelin@gmail.com>  
Aleksandr Lukinykh <a.lukinykh@xsolla.com>  
Aleksandr Razumov <ar@cydev.ru>  
Alekseev Artem <a.artem060@gmail.com>  
Alessandro Arzilli <alessandro.arzilli@gmail.com>  
Alessandro Baffa <alessandro.baffa@gmail.com>  
Alex A Skinner <alex@lx.lc>  
Alex Brainman <alex.brainman@gmail.com>  
Alex Bramley <abramley@google.com>  
Alex Browne <stephenalexbrowne@gmail.com>  
Alex Buchanan <buchanae@gmail.com>  
Alex Carol <alex.carol.c@gmail.com>  
Alex  
Gaynor <alex@alloy.us>  
Alex Harford <alex.harford@saucelabs.com>  
Alex Jin <toalexjin@gmail.com>  
Alex Kohler <alexjohnkohler@gmail.com>  
Alex Myasoedov <msoedov@gmail.com>  
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>  
Alex Schroeder <alex@gnu.org>  
Alex Sergeyev <abc@alexsergeyev.com>  
Alex Tokarev <aleksator@gmail.com>  
Alex Vaghin <crhyme@google.com>  
Alex Zhironov <azhironov@google.com>  
Alexander Demakin <alexander.demakin@gmail.com>  
Alexander Dring <email@alex.d.ch>  
Alexander F Rdseth <alexander.rodseth@appeartv.com>  
Alexander Guz <kalimatas@gmail.com>  
Alexander Kauer <alexander@affine.space>  
Alexander Kucherenko <alxkchr@gmail.com>  
Alexander Larsson <alexander.larsson@gmail.com>  
Alexander Lourier <aml@rulezz.ru>  
Alexander Menzhinsky <amenzhinsky@gmail.com>  
Alexander Morozov <lk4d4math@gmail.com>  
Alexander Neumann <alexander@bumper.de>  
Alexander Orlov <alexander.orlov@loxal.net>  
Alexander Pantyukhin <apantykhin@gmail.com>  
Alexander Polcyn <apolcyn@google.com>  
Alexander

Rakoczy <alex@golang.org>  
Alexander Reece <awreece@gmail.com>  
Alexander Surma <surma@surmair.de>  
Alexander Zhavnerchik <alex.vizor@gmail.com>  
Alexander Zillion <alex@alexzillion.com>  
Alexander Zolotov <goldifit@gmail.com>  
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>  
Alexandre Cesaro <alexandre.cesaro@gmail.com>  
Alexandre Fiori <fiorix@gmail.com>  
Alexandre Maari <draeron@gmail.com>  
Alexandre Normand <alexandre.normand@gmail.com>  
Alexandre Parentea <aubonbeurre@gmail.com>  
Alexandre Viau <alexandre@alexandreviau.net>  
Alexandru Mooi <brtznr@gmail.com>  
Alexei Sholik <alcosholik@gmail.com>  
Alexey Alexandrov <aalexand@google.com>  
Alexey Borzenkov <snaury@gmail.com>  
Alexey Naidonov <alexey.naidyonov@gmail.com>  
Alexey Neganov <neganovalexey@gmail.com>  
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>  
Alexis Hildebrandt <surryhill@gmail.com>  
Alexis Hunt <lexer@google.com>  
Alexis Imperial-Legrand <ail@google.com>  
Ali Rizvi-Santiago <arizvisa@gmail.com>  
Aliaksandr Valialkin <valyala@gmail.com>  
Alif  
Rachmawadi <subosito@gmail.com>  
Allan Simon <allan.simon@supinfo.com>  
Allen Li <ayatane@google.com>  
Alok Menghrajani <alok.menghrajani@gmail.com>  
Aman Gupta <aman@tmm1.net>  
Amir Mohammad Saied <amir@gluegadget.com>  
Amr Mohammed <merodiro@gmail.com>  
Amrut Joshi <amrut.joshi@gmail.com>  
An Xiao <hac@zju.edu.cn>  
Anand K. Mistry <anand@mistry.ninja>  
Anders Pearson <anders@columbia.edu>  
Anderson Queiroz <contato@andersonq.eti.br>  
Andr Carvalho <asantostc@gmail.com>  
Andre Nathan <andrenth@gmail.com>  
Andrea Nodari <andrea.nodari91@gmail.com>  
Andrea Spadaccini <spadaccio@google.com>  
Andreas Auernhammer <aead@mail.de>  
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>  
Andreas Litt <andreas.litt@gmail.com>  
Andrei Enshin <b1os@bk.ru>  
Andrei Gherzan <andrei@resin.io>  
Andrei Korzhevskii <a.korzhevskiy@gmail.com>

Andrei Matei <andrei@cockroachlabs.com>  
Andrei Tudor Clin <mail@acln.ro>  
Andrei Vagin <avagin@google.com>  
Andrei Vieru <euvieru@gmail.com>  
Andres Erbsen <andreser@google.com>  
Andres  
Lowrie <andres.lowrie@gmail.com>  
Andrew Austin <andrewaact@gmail.com>  
Andrew Balholm <andybalholm@gmail.com>  
Andrew Benton <andrewmbenton@gmail.com>  
Andrew Bonventre <andybons@chromium.org>  
Andrew Braunstein <awbraunstein@gmail.com>  
Andrew Bursavich <abursavich@gmail.com>  
Andrew Ekstedt <andrew.ekstedt@gmail.com>  
Andrew Etter <andrew.etter@gmail.com>  
Andrew Gerrand <adg@golang.org>  
Andrew Harding <andrew@spacemonkey.com>  
Andrew Jackura <ajackura@google.com>  
Andrew Lutomirski <andy@luto.us>  
Andrew Medvedev <andrew.y.medvedev@gmail.com>  
Andrew Pilloud <andrewpilloud@igneoussystem.com>  
Andrew Pogrebnoy <absourd.noise@gmail.com>  
Andrew Poydence <apoydence@pivotal.io>  
Andrew Pritchard <awpritchard@gmail.com>  
Andrew Radev <andrey.radev@gmail.com>  
Andrew Skiba <skibaa@gmail.com>  
Andrew Stormont <astormont@racktopsystems.com>  
Andrew Stribblehill <ads@wompom.org>  
Andrew Szeto <andrew@jabagawee.com>  
Andrew Todd <andrew.todd@wework.com>  
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>  
Andrew  
Wilkins <axwalk@gmail.com>  
Andrew Williams <williams.andrew@gmail.com>  
Andrew Z Allen <me@andrewzallen.com>  
Andrey Mirtchovski <mirtchovski@gmail.com>  
Andrey Petrov <andrey.petrov@shazow.net>  
Andrii Soldatenko <andrii.soldatenko@gmail.com>  
Andrii Soluk <isoluchok@gmail.com>  
Andriy Lytvynov <lytvynov.a.v@gmail.com>  
Andrzej eel <andrii.zhezhel@gmail.com>  
Andy Balholm <andy@balholm.com>  
Andy Davis <andy@bigandian.com>  
Andy Finkenstadt <afinkenstadt@zynga.com>  
Andy Lindeman <andy@lindeman.io>  
Andy Maloney <asmaloney@gmail.com>  
Andy Walker <walkeraj@gmail.com>  
Andzej Maciusovic <andzej.maciusovic@gmail.com>



Anfernee Yongkun Gui <anfernee.gui@gmail.com>  
Angelo Bulfone <mbulfone@gmail.com>  
Anh Hai Trinh <anh.hai.trinh@gmail.com>  
Anit Gandhi <anitgandhi@gmail.com>  
Ankit Goyal <ankit3goyal@gmail.com>  
Anmol Sethi <anmol@aubble.com>  
Anschel Schaffer-Cohen <anschelsc@gmail.com>  
Anthony Alves <cvballa3g0@gmail.com>  
Anthony Canino <anthony.canino1@gmail.com>  
Anthony Eufemio <anthony.eufemio@gmail.com>  
Anthony  
Fok <foka@debian.org>  
Anthony Martin <ality@pbrane.org>  
Anthony Sottile <asottile@umich.edu>  
Anthony Starks <ajstarks@gmail.com>  
Anthony Voutas <voutasaurus@gmail.com>  
Anthony Woods <awoods@raintank.io>  
Antoine GIRARD <sapk@sapk.fr>  
Antoine Martin <antoine97.martin@gmail.com>  
Anton Gyllenberg <anton@iki.fi>  
Antonin Amand <antonin.amand@gmail.com>  
Antonio Antelo <aantelov87@gmail.com>  
Antonio Bibiano <antbbn@gmail.com>  
Antonio Huete Jimenez <tuxillo@quantumachine.net>  
Antonio Murdaca <runcom@redhat.com>  
Antonio Troina <thoeni@gmail.com>  
Aofei Sheng <aofei@aofeisheng.com>  
Apisak Darakananda <pongad@gmail.com>  
Aram Hvrneanu <aram@mgk.ro>  
Arash Bina <arash@arash.io>  
Arda Gl <ardaguclu@gmail.com>  
Areski Belaid <areski@gmail.com>  
Ariel Mashraki <ariel@mashraki.co.il>  
Arkadi Pyuro <arkadi@google.com>  
Arlo Breault <arlolra@gmail.com>  
Arnaud Ysmal <arnaud.ysmal@gmail.com>  
Arne Hormann <arnehormann@gmail.com>  
Arnout Engelen <arnout@bzzt.net>  
Aron Nopanen <aron.nopanen@gmail.com>  
Artem  
Alekseev <artem.alekseev@intel.com>  
Artem Kolin <artemkaxboy@gmail.com>  
Arthur Fabre <arthur@arthurfabre.com>  
Arthur Khashaev <arthur@khashaev.ru>  
Artyom Pervukhin <artyom.pervukhin@gmail.com>  
Arvindh Rajesh Tamilmani <art@a-30.net>  
Ashish Gandhi <ag@ashishgandhi.org>  
Asim Shankar <asimshankar@gmail.com>

Atin Malaviya <amalaviy@akamai.com>  
Ato Araki <ato.araki@gmail.com>  
Audrey Lim <audreylh@gmail.com>  
Audrius Butkevicius <audrius.butkevicius@gmail.com>  
Augusto Roman <aroman@gmail.com>  
Aulus Egnatius Varialus <varialus@gmail.com>  
Aurlien Rainone <aurelien.rainone@gmail.com>  
Austin Clements <austin@google.com> <aclements@csail.mit.edu>  
Avi Flax <avi@timehop.com>  
awaw fumin <awawfumin@gmail.com>  
Awn Umar <awn@cryptolosophy.io>  
Axel Wagner <axel.wagner.hh@googlemail.com>  
Ayan George <ayan@ayan.net>  
Ayanamist Yang <ayanamist@gmail.com>  
Ayke van Laethem <aykevanlaethem@gmail.com>  
Aymerick Jhanne <aymerick@jehanne.org>  
Azat Kaumov <kaumov.a.r@gmail.com>  
Baiju Muthukadan <baiju.m.mail@gmail.com>  
Balaram  
Makam <bmakam.qdt@qualcommdatacenter.com>  
Balazs Lecz <leczb@google.com>  
Baokun Lee <nototon@gmail.com>  
Barnaby Keene <accounts@southcla.ws>  
Bartosz Grzybowski <melkorm@gmail.com>  
Bartosz Oler <brtsz@google.com>  
Bastian Ike <bastian.ike@gmail.com>  
Ben Burkert <ben@benburkert.com>  
Ben Eitzen <eitzenb@golang.org>  
Ben Fried <ben.fried@gmail.com>  
Ben Haines <bhainesva@gmail.com>  
Ben Hoyt <benhoyt@gmail.com>  
Ben Laurie <ben@links.org> <benl@google.com>  
Ben Lubar <ben.lubar@gmail.com>  
Ben Lynn <benlynn@gmail.com>  
Ben Olive <sionide21@gmail.com>  
Ben Schwartz <bemasc@google.com>  
Ben Shi <powerman1st@163.com>  
Ben Toews <mastahyeti@gmail.com>  
Benjamin Black <b@b3k.us>  
Benjamin Cable <cable.benjamin@gmail.com>  
Benjamin Hsieh <tanookiben@users.noreply.github.com>  
Benjamin Peterson <benjamin@python.org>  
Benjamin Prosnitz <bprosnitz@google.com>  
Benjamin Wester <bwester@squareup.com>  
Benjamin Wuethrich <benjamin.wuethrich@gmail.com>  
Benny Siegert <bsiegert@gmail.com>  
Benoit

Sigoure <tsunanet@gmail.com>  
Berengar Lehr <Berengar.Lehr@gmx.de>  
Berkant Ipek <41230766+0xbkt@users.noreply.github.com>  
Bharath Thiruveedula <tbharath91@gmail.com>  
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>  
Bill O'Farrell <billo@ca.ibm.com>  
Bill Prin <waprin@google.com>  
Bill Thiede <couchmoney@gmail.com>  
Bill Zissimopoulos <billziss@navimatics.com>  
Billie Harold Cleek <bhcleek@gmail.com>  
Billy Lynch <wlynch@google.com>  
Bjrn Erik Pedersen <bjorn.erik.pedersen@gmail.com>  
Bjorn Tillenius <bjorn@tillenius.me>  
Bjorn Tipling <bjorn.tipling@gmail.com>  
Blain Smith <rebelgeek@blainsmith.com>  
Blake Gentry <blakesgentry@gmail.com>  
Blake Mesdag <blakemesdag@gmail.com>  
Blake Mizerany <blake.mizerany@gmail.com>  
Blixt <me@blixt.nyc>  
Bob Briski <rbriski@gmail.com>  
Bob Potter <bobby.potter@gmail.com>  
Bobby DeSimone <bobbydesimone@gmail.com>  
Bobby Powers <bobbypowers@gmail.com>  
Boris Nagaev <nagaev@google.com>  
Borja Clemente <borja.clemente@gmail.com>  
Brad Burch <brad.burch@gmail.com>  
Brad  
Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>  
Brad Garcia <bgarcia@golang.org>  
Brad Jones <rbrjones@google.com>  
Brad Morgan <brad@morgabra.com>  
Brad Whitaker <bwhitaker@fastly.com>  
Braden Bassingthwaite <bbassingthwaite@vendasta.com>  
Bradford Lamson-Scribner <brad.lamson@gmail.com>  
Bradley Falzon <brad@teambrad.net>  
Brady Catherman <brady@gmail.com>  
Brady Sullivan <brady@bsull.com>  
Brandon Bennett <bbennett@fb.com>  
Brandon Gilmore <varz@google.com>  
Brandon Philips <brandon@ifup.org>  
Brandon Ryan <bjryan19@gmail.com>  
Brendan Daniel Tracey <tracey.brendan@gmail.com>  
Brendan O'Dea <bod@golang.org>  
Brett Cannon <bcannon@gmail.com>  
Brett Merrill <brett.j.merrill94@gmail.com>  
Brian Dellisanti <briandellisanti@gmail.com>  
Brian Downs <brian.downs@gmail.com>  
Brian Falk <falk@logicparty.org>

Brian G. Merrell <bgmerrell@gmail.com>  
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>  
Brian Kennedy <btkenedy@gmail.com>  
Brian Kessler <brian.m.kessler@gmail.com>  
Brian  
Ketelsen <bketelsen@gmail.com>  
Brian Slesinsky <skybrian@google.com>  
Brian Smith <ohohvi@gmail.com>  
Brian Starke <brian.starke@gmail.com>  
Bryan Alexander <Kozical@msn.com>  
Bryan C. Mills <bcmills@google.com>  
Bryan Chan <bryan.chan@ca.ibm.com>  
Bryan Ford <brynosaurus@gmail.com>  
Bryan Heden <b.heden@gmail.com>  
Bulat Gaifullin <gaifullinbf@gmail.com>  
Burak Guven <bguven@gmail.com>  
Caine Tighe <arctanofyourface@gmail.com>  
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>  
Caleb Martinez <accounts@calebmartinez.com>  
Caleb Spare <cespare@gmail.com>  
Carl Chatfield <carlchatfield@gmail.com>  
Carl Henrik Lunde <chlunde@ifi.uio.no>  
Carl Jackson <carl@stripe.com>  
Carl Johnson <me@carlmjohnson.net>  
Carl Mastrangelo <notcarl@google.com>  
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>  
Carlisia Campos <carlisia@grokkingtech.io>  
Carlo Alberto Ferraris <cafxx@strayorange.com>  
Carlos Amedee <carlos@golang.org>  
Carlos Castillo <cookieo9@gmail.com>  
Carlos Cirello <uldericofilho@gmail.com>  
Carlos  
Eduardo <me@carlosedp.com>  
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>  
Carlos Souza <carloshrsouza@gmail.com>  
Carolyn Van Slyck <me@carolynvanslyck.com>  
Carrie Bynon <cbynon@gmail.com>  
Cary Hull <chull@google.com>  
Case Nelson <case.nelson@gmail.com>  
Casey Callendrello <squeed@gmail.com>  
Casey Marshall <casey.marshall@gmail.com>  
Catalin Nicutar <cnicutar@google.com>  
Catalin Patulea <catalinp@google.com>  
Cedric Staub <cs@squareup.com>  
Cezar S Espinola <cezarsa@gmail.com>  
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>  
ChaiShushan <chaishushan@gmail.com>  
Changkun Ou <hi@changkun.us>

Channing Kimble-Brown <channing@golang.org>  
Charles Fenwick Elliott <Charles@FenwickElliott.io>  
Charles Kenney <charlesc.kenney@gmail.com>  
Charles L. Dorian <cldorian@gmail.com>  
Charles Lee <zombie.fml@gmail.com>  
Charles Weill <weill@google.com>  
Chauncy Cullitan <chauncyc@google.com>  
Chen Zhihan <energiehund@gmail.com>  
Cherry Zhang <cherryyz@google.com>  
Chew Choon Keat <choonkeat@gmail.com>  
Cholerae  
Hu <choleraehyq@gmail.com>  
Chotepud Teo <AlexRouSg@users.noreply.github.com>  
Chris Ball <chris@printf.net>  
Chris Biscardi <chris@christopherbiscardi.com>  
Chris Broadfoot <cbro@golang.org>  
Chris Dollin <ehog.hedge@gmail.com>  
Chris Farmiloe <chrisfarms@gmail.com>  
Chris Hines <chris.cs.guy@gmail.com>  
Chris Howey <howeyc@gmail.com>  
Chris Hundt <hundt@google.com>  
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>  
Chris Kastorff <encryptio@gmail.com>  
Chris Lennert <calennert@gmail.com>  
Chris Liles <caveryliles@gmail.com>  
Chris Manghane <cmang@golang.org>  
Chris Marchesi <chrism@vanclueverttech.com>  
Chris McGee <sirnewton\_01@yahoo.ca> <newton688@gmail.com>  
Chris Raynor <raynor@google.com>  
Chris Roche <rodaine@gmail.com>  
Chris Smith <chrsmith@users.noreply.github.com>  
Chris Stockton <chrisstocktonaz@gmail.com>  
Chris Zou <chriszou@ca.ibm.com>  
Christian Alexander <christian@linux.com>  
Christian Couder <chriscool@tuxfamily.org>  
Christian Himpel <chressie@googlemail.com>  
<chressie@gmail.com>  
Christian Muehlhaeuser <muesli@gmail.com>  
Christian Pellegrin <chri@evolware.org>  
Christian R. Petrin <christianpetrin@gmail.com>  
Christine Hansmann <chhansmann@gmail.com>  
Christoffer Buchholz <christoffer.buchholz@gmail.com>  
Christoph Blecker <admin@toph.ca>  
Christoph Hack <christoph@tux21b.org>  
Christopher Cahoon <chris.cahoon@gmail.com>  
Christopher Guiney <chris@guiney.net>  
Christopher Henderson <chris@chenderson.org>  
Christopher Koch <chrisko@google.com>

Christopher Loessl <cloessl+github@gmail.com>  
Christopher Nelson <nadiasvertex@gmail.com>  
Christopher Nielsen <m4dh4tt3r@gmail.com>  
Christopher Redden <christopher.redden@gmail.com>  
Christopher Swenson <cswenson@google.com>  
Christopher Wedgwood <cw@f00f.org>  
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>  
Christy Perez <christy@linux.vnet.ibm.com>  
CL Sung <clsung@gmail.com> <cl\_sung@htc.com>  
Clment Chigot <clement.chigot@atos.net>  
Clement Skau <clementskau@gmail.com>  
Clint J. Edwards <clint.j.edwards@gmail.com>  
Cody  
Oss <the.cody.oss@gmail.com>  
Colby Ranger <cranger@google.com>  
Colin Arnott <colin@urandom.co.uk>  
Colin Cross <ccross@android.com>  
Colin Edwards <colin@recursivepenguin.com>  
Colin Kennedy <moshen.colin@gmail.com>  
Colin Nelson <colnnelson@google.com>  
Colin Rice <clr@google.com>  
Conrad Irwin <conrad.irwin@gmail.com>  
Conrad Meyer <cemeyer@cs.washington.edu>  
Conrado Gouvea <conradopl@gmail.com>  
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>  
Corey Thomasson <cthom.lists@gmail.com>  
Cosmos Nicolaou <cnicolaou@google.com>  
Costin Chirvasuta <ctin@google.com>  
Craig Citro <craigcitro@google.com>  
Cristian Staretu <unclejacksons@gmail.com>  
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>  
Cyrill Schumacher <cyrrill@schumacher.fm>  
Daisuke Fujita <dtanshi45@gmail.com>  
Daisuke Suzuki <daisuzu@gmail.com>  
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>  
Damian Gryski <dgryski@gmail.com>  
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>  
Damien  
Mathieu <42@dmathieu.com>  
Damien Neil <dneil@google.com>  
Damien Tournoud <damien@platform.sh>  
Dan Ballard <dan@mindstab.net>  
Dan Caddigan <goldcaddy77@gmail.com>  
Dan Callahan <dan.callahan@gmail.com>  
Dan Harrington <harringtond@google.com>  
Dan Jacques <dnj@google.com>  
Dan Johnson <computerdruid@google.com>  
Dan Peterson <dpiddy@gmail.com>

Dan Pupius <dan@medium.com>  
Dan Scales <danscales@google.com>  
Dan Sinclair <dan.sinclair@gmail.com>  
Daniel Cormier <danielc@knowbe4.com>  
Danil de Kok <me@danieldk.eu>  
Daniel Fleischman <danielfleischman@gmail.com>  
Daniel Ingram <ingramds@appstate.edu>  
Daniel Johansson <dajo2002@gmail.com>  
Daniel Kerwin <d.kerwin@gini.net>  
Daniel Krech <eikeon@eikeon.com>  
Daniel Langner <s8572327@gmail.com>  
Daniel Lidn <daniel.liden.87@gmail.com>  
Daniel Lublin <daniel@lublin.se>  
Daniel Mart <mvdan@mvdan.cc>  
Daniel Morsing <daniel.morsing@gmail.com>  
Daniel Nadasi <dnadasi@google.com>  
Daniel Nephin <dnephin@gmail.com>  
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>  
Daniel  
Skinner <daniel@dasa.cc>  
Daniel Speichert <daniel@speichert.pl>  
Daniel Theophanes <kardianos@gmail.com>  
Daniel Upton <daniel@floppy.co>  
Daniela Petruzalek <daniela.petruzalek@gmail.com>  
Danny Rosseau <daniel.rosseau@gmail.com>  
Daria Kolistratova <daria.kolistratova@intel.com>  
Darien Raymond <admin@v2ray.com>  
Darren Elwood <darren@textnode.com>  
Darren Grant <darren.e.grant@gmail.com>  
Darren McCleary <darren.rmc@gmail.com>  
Darshan Parajuli <parajulidarshan@gmail.com>  
Datong Sun <dndx@idndx.com>  
Dave Borowitz <dborowitz@google.com>  
Dave Bort <dbort@golang.org>  
Dave Cheney <dave@cheney.net>  
Dave Day <djd@golang.org>  
Dave Grijalva <dgrijalva@ngmoco.com>  
Dave MacFarlane <driusan@gmail.com>  
Dave Russell <forfuncsake@gmail.com>  
David Anderson <danderson@google.com>  
David Barnett <dbarnett@google.com>  
David Benjamin <davidben@google.com>  
David Bond <davidsbond93@gmail.com>  
David Brophy <dave@brophy.uk>  
David Brgin <676c7473@gmail.com>  
David Calavera <david.calavera@gmail.com>  
David

Carlier <devnexen@gmail.com>  
David Chase <drchase@google.com>  
David Covert <davidhcovert@gmail.com>  
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>  
David du Colombier <0intro@gmail.com>  
David Finkel <david.finkel@gmail.com>  
David Forsythe <dforsythe@gmail.com>  
David G. Andersen <dave.andersen@gmail.com>  
David Glasser <glasser@meteor.com>  
David Heuschmann <heuschmann.d@gmail.com>  
David Howden <dhowden@gmail.com>  
David Hubbard <dsp@google.com>  
David Jakob Fritz <david.jakob.fritz@gmail.com>  
David Jones <dxjones@gmail.com>  
David Lazar <lazard@golang.org>  
David Leon Gil <coruus@gmail.com>  
David McLeish <davemc@google.com>  
David Ndungu <dnjuguna@gmail.com>  
David NewHamlet <david@newhamlet.com>  
David Presotto <presotto@gmail.com>  
David R. Jenni <david.r.jenni@gmail.com>  
David Sansome <me@davidsansome.com>  
David Stainton <dstainton415@gmail.com>  
David Symonds <dsymonds@golang.org>  
David Thomas <davidthomas426@gmail.com>  
David Timm <dtimm@pivotal.io>  
David  
Titarenco <david.titarenco@gmail.com>  
David Tolpin <david.tolpin@gmail.com>  
David Url <david@urld.io>  
David Volquartz Lebech <david@lebech.info>  
David Wimmer <davidlwimmer@gmail.com>  
Davies Liu <davies.liu@gmail.com>  
Davor Kapsa <davor.kapsa@gmail.com>  
Dean Prichard <dean.prichard@gmail.com>  
Deepak Jois <deepak.jois@gmail.com>  
Denis Bernard <db047h@gmail.com>  
Denis Brandolini <denis.brandolini@gmail.com>  
Denis Isaev <idenx@yandex.com>  
Denis Nagorny <denis.nagorny@intel.com>  
Dennis Kuhnert <mail.kuhnert@gmail.com>  
Denys Honsiorovskiy <honsiorovskiy@gmail.com>  
Denys Smirnov <denis.smirnov.91@gmail.com>  
Derek Buitenhuis <derek.buitenhuis@gmail.com>  
Derek Che <drc@yahoo-inc.com>  
Derek McGowan <derek@mcgstyle.net>  
Derek Parker <parkerderek86@gmail.com>  
Derek Phan <derekphan94@gmail.com>



Derek Shockey <derek.shockey@gmail.com>  
Dev Ojha <dojha12@gmail.com>  
Dev Zhoujun <dev.zhoujun@gmail.com>  
Devon H. O'Dell <devon.odell@gmail.com>  
Dhaivat Pandit <dhaivatpandit@gmail.com>  
Dhananjay  
Nakrani <dhananjayn@google.com>  
Dhiru Kholia <dhiru.kholia@gmail.com>  
Dhruvdudd Jadhav <dhrvdudd.jadhav@gmail.com>  
Di Xiao <dixiao@google.com>  
Didier Spezia <didier.06@gmail.com>  
Diego Siqueira <diego9889@gmail.com>  
Dieter Plaetinck <dieter@raintank.io>  
Dimitri Sokolyuk <sokolyuk@gmail.com>  
Dimitri Tcaciuc <dtcaciuc@gmail.com>  
Dina Garmash <dgrmsh@gmail.com>  
Diogo Pinela <diogoid7400@gmail.com>  
Dirk Gadsden <dirk@esherido.com>  
Diwaker Gupta <diwakergupta@gmail.com>  
Dmitri Goutnik <dgoutnik@gmail.com>  
Dmitri Popov <operator@cv.dp-net.com>  
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>  
Dmitriy Cherchenko <dcherchenko@gmail.com>  
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>  
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>  
Dmitriy Vyukov <dvyukov@google.com>  
Dmitry Chestnykh <dchest@gmail.com>  
Dmitry Doroginin <doroginin@gmail.com>  
Dmitry Mottl <dmitry.mottl@gmail.com>  
Dmitry Neverov <dmitry.neverov@gmail.com>  
Dmitry Savintsev <dsavints@gmail.com>  
Dmitry Yakunin <nonamezeil@gmail.com>  
Domas  
Tamauskas <puerdomus@gmail.com>  
Domen Ipavec <domen@ipavec.net>  
Dominic Green <dominicgreen1@gmail.com>  
Dominik Honnef <dominik.honnef@gmail.com>  
Dominik Vogt <vogt@linux.vnet.ibm.com>  
Don Byington <don@dbyington.com>  
Donald Huang <don.hcd@gmail.com>  
Dong-hee Na <donghee.na92@gmail.com>  
Donovan Hide <donovanhide@gmail.com>  
Doug Anderson <douga@google.com>  
Doug Fawley <dfawley@google.com>  
Douglas Danger Manley <doug.manley@gmail.com>  
Drew Flower <drewvanstone@gmail.com>  
Drew Hintz <adhintz@google.com>  
Duco van Amstel <duco.vanamstel@gmail.com>

Duncan Holm <mail@frou.org>  
Dustin Carlino <dcarlino@google.com>  
Dustin Herbison <djherbis@gmail.com>  
Dustin Long <dustmop@gmail.com>  
Dustin Sallings <dsallings@gmail.com>  
Dustin Shields-Cloues <dcloues@gmail.com>  
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>  
Dylan Waits <dylan@waits.io>  
Edan Bedrik <3d4nb3@gmail.com>  
Eddie Scholtz <escholtz@google.com>  
Eden Li <eden.li@gmail.com>  
Eduard Urbach <e.urbach@gmail.com>  
Eduardo  
Ramalho <eduardo.ramalho@gmail.com>  
Eduardo Villaseor <evillasrmx@gmail.com>  
Edward Muller <edwardam@interlix.com>  
Egon Elbre <egonelbre@gmail.com>  
Ehren Kret <ehren.kret@gmail.com>  
Eitan Adler <lists@eitanadler.com>  
Eivind Uggedal <eivind@uggedal.com>  
Elbert Fliek <efliek@gmail.com>  
Eldar Rakhimberdin <ibeono@gmail.com>  
Elena Grahovac <elena@grahovac.me>  
Eli Bendersky <eliben@google.com>  
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>  
Elliot Morrison-Reed <elliottmr@gmail.com>  
Emerson Lin <linyintor@gmail.com>  
Emil Hessman <emil@hessman.se>  
Emil Mursalimov <mursalimovemeel@gmail.com>  
Emilien Kenler <hello@emilienkenler.com>  
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>  
Eno Compton <enocom@google.com>  
Eoghan Sherry <ejsherry@gmail.com>  
Eric Biggers <ebiggers@google.com>  
Eric Brown <browne@vmware.com>  
Eric Chiang <eric.chiang.m@gmail.com>  
Eric Clark <zerohp@gmail.com>  
Eric Daniels <eric@erdaniels.com>  
Eric Engestrom <eric@engestrom.ch>  
Eric Garrido <ekg@google.com>  
Eric  
Koleda <ekoleda+devrel@google.com>  
Eric Lagergren <ericscottlagergren@gmail.com>  
Eric Milliken <emilliken@gmail.com>  
Eric Pauley <eric@pauley.me>  
Eric Ponce <tricokun@gmail.com>  
Eric Rescorla <ekr@rtfm.com>  
Eric Roshan-Eisner <eric.d.eisner@gmail.com>

Eric Rutherford <erutherford@gmail.com>  
Eric Rykwaldler <e.rykwaldler@gmail.com>  
Erik Aigner <aigner.erik@gmail.com>  
Erik Dubbelboer <erik@dubbelboer.com>  
Erik St. Martin <alakriti@gmail.com>  
Erik Staab <estaab@google.com>  
Erik Westrup <erik.westrup@gmail.com>  
Erin Masatsugu <erin.masatsugu@gmail.com>  
Ernest Chiang <ernest\_chiang@htc.com>  
Erwin Oegema <blablaechthema@hotmail.com>  
Esko Luontola <esko.luontola@gmail.com>  
Ethan Burns <eaburns@google.com>  
Ethan Miller <eamiller@us.ibm.com>  
Euan Kemp <euank@euank.com>  
Eugene Kalinin <e.v.kalinin@gmail.com>  
Evan Broder <evan@stripe.com>  
Evan Brown <evanbrown@google.com>  
Evan Digby <evandigby@gmail.com>  
Evan Hicks <evan.hicks2@gmail.com>  
Evan Jones <ej@evanjones.ca>  
Evan Klitzke <evan@eklitzke.org>  
Evan  
Kroske <evankroske@google.com>  
Evan Martin <evan.martin@gmail.com>  
Evan Phoenix <evan@phx.io>  
Evan Shaw <chickencha@gmail.com>  
Evgeniy Polyakov <zbr@ioremap.net>  
Ewan Chou <coocood@gmail.com>  
Ewan Valentine <ewan.valentine89@gmail.com>  
Eyal Posener <posener@gmail.com>  
Fabian Wickborn <fabian@wickborn.net>  
Fabian Zaremba <fabian@youremail.eu>  
Fabrizio Milo <mistobaan@gmail.com>  
Faiyaz Ahmed <ahmedf@vmware.com>  
Fan Hongjian <fan.howard@gmail.com>  
Fangming Fang <fangming.fang@arm.com>  
Fannie Zhang <fannie.zhang@arm.com>  
Fatih Arslan <fatih@arslan.io>  
Fazal Majid <majid@apsalar.com>  
Fazlul Shahriar <fshahriar@gmail.com>  
Federico Bond <federicobond@gmail.com>  
Federico Simoncelli <fsimonce@redhat.com>  
Fedor Indutny <fedor@indutny.com>  
Fedor Korotkiy <dartslon@gmail.com>  
Felipe Oliveira <felipeweb.programador@gmail.com>  
Felix Bnemann <Felix.Buenemann@gmail.com>  
Felix Geisendrfer <haimuiba@gmail.com>  
Felix Kollmann <fk@konsorten.de>

Filip Gruszczyski <gruszcz@ gmail.com>  
Filip  
Haglund <drathier@users.noreply.github.com>  
Filip Stanis <fstanis@ google.com>  
Filippo Valsorda <filippo@ golang.org> <filippo@cloudflare.com> <hi@filippo.io>  
Firmansyah Adiputra <frm.adiputra@ gmail.com>  
Florian Forster <octo@ google.com>  
Florian Uekermann <florian@ uekermann-online.de> <f1@ uekermann-online.de>  
Florian Weimer <fw@ deneb.enyo.de>  
Florin Patan <florinpatan@ gmail.com>  
Folke Behrens <folke@ google.com>  
Ford Hurley <ford.hurley@ gmail.com>  
Francesc Campoy <campoy@ golang.org>  
Francesco Renzi <rentziass@ gmail.com>  
Francisco Claude <fclaude@ recoded.cl>  
Francisco Rojas <francisco.rojas.gallegos@ gmail.com>  
Francisco Souza <francissouza@ gmail.com>  
Frank Schroeder <frank.schroeder@ gmail.com>  
Frank Somers <fsomers@ arista.com>  
Frederic Guillot <frederic.guillot@ gmail.com>  
Frederick Kelly Mayle III <frederickmayle@ gmail.com>  
Frederik Ring <frederik.ring@ gmail.com>  
Frederik Zipp <fzipp@ gmx.de>  
Fredrik Enestad <fredrik.enestad@ soundtrackyourbrand.com>  
Fredrik Forsmo <fredrik.forsmo@ gmail.com>  
Fredrik  
Wallgren <fredrik.wallgren@ gmail.com>  
Frew Schmidt <github@frew.co>  
Frithjof Schulze <schulze@ math.uni-hannover.de> <sfritjhof@ gmail.com>  
Frits van Bommel <fvbommel@ gmail.com>  
Fujimoto Kyosuke <kyoro.f@ gmail.com>  
Fumitoshi Ukai <ukai@ google.com>  
G. Hussain Chinoy <ghchinoy@ gmail.com>  
Gaal Yahas <gaal@ google.com>  
Gabrel Arthr Ptursson <gabriel@ system.is>  
Gabriel Aszalos <gabriel.aszalos@ gmail.com>  
Gabriel Guzman <gabe.guzman@ gmail.com>  
Gabriel Nelle <tehsphinx@ web.de>  
Gabriel Nicolas Avellaneda <avellaneda.gabriel@ gmail.com>  
Gabriel Rosenhouse <rosenhouse@ gmail.com>  
Gabriel Russell <gabriel.russell@ gmail.com>  
Gareth Paul Jones <gpj@ foursquare.com>  
Garret Kelly <gdk@ google.com>  
Garrick Evans <garrick@ google.com>  
Gary Burd <gary@ beagledreams.com> <gary.burd@ gmail.com>  
Gary Elliott <garyelliott@ google.com>  
Gaurish Sharma <contact@ gaurishsharma.com>  
Gautham Thambidorai <gautham.dorai@ gmail.com>

Gauthier Jolly <gauthier.jolly@gmail.com>  
Geert-Johan Riemer <gjr19912@gmail.com>  
Genevieve  
Luyt <genevieve.luyt@gmail.com>  
Gengliang Wang <ltngl@gmail.com>  
Geoff Berry <gberry.qdt@qualcommdatacenter.com>  
Geoffroy Lorieux <lorieux.g@gmail.com>  
Geon Kim <geon0250@gmail.com>  
Georg Reinke <guelfey@gmail.com>  
George Gkirtsou <ggirtsou@gmail.com>  
George Hartzell <hartzell@alerce.com>  
George Shammas <george@shamm.as> <georgyo@gmail.com>  
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>  
Gerasimos Dimitriadis <gedimitr@gmail.com>  
Gergely Brautigam <skarlso777@gmail.com>  
Gernot Vormayr <gvormayr@gmail.com>  
Gert Cuykens <gert.cuykens@gmail.com>  
Getulio Snchez <valentin2507@gmail.com>  
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>  
Gianguido Sora` <g.sora4@gmail.com>  
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>  
Giles Lean <giles.lean@pobox.com>  
Giovanni Bajo <rasky@develer.com>  
GitHub User @ajnrp (1688456) <ajnrp@users.noreply.github.com>  
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>  
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>  
GitHub User @andig  
(184815) <cpuidle@gmx.de>  
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>  
GitHub User @as (8127015) <as.utf8@gmail.com>  
GitHub User @bakape (7851952) <bakape@gmail.com>  
GitHub User @bgadrian (830001) <aditza8@gmail.com>  
GitHub User @bontequero (2674999) <bontequero@gmail.com>  
GitHub User @cch123 (384546) <buaa.cch@gmail.com>  
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>  
GitHub User @DQNEO (188741) <dqneo@gmail.com>  
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>  
GitHub User @erifan (31343225) <eric.fang@arm.com>  
GitHub User @esell (9735165) <eujon.sellers@gmail.com>  
GitHub User @frenkie (6499251) <mail@rhab.de>  
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>  
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>  
GitHub User @jinmiaoluo (39730824) <jinmiaoluo@icloud.com>  
GitHub User @jobbrown (6345470) <msshane2008@gmail.com>  
GitHub User @kazysshr (30496953) <kazysshr0301@gmail.com>  
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>  
GitHub

User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>  
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>  
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>  
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>  
GitHub User @maltalex (10195391) <code@bit48.net>  
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>  
GitHub User @micnncim (21333876) <micnncim@gmail.com>  
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>  
GitHub User @OlgaVIPetrova (44112727) <OVPPetrova@gmail.com>  
GitHub User @pityonline (438222) <pityonline@gmail.com>  
GitHub User @po3rin (29445112) <abctail30@gmail.com>  
GitHub User @pokutuna (57545) <popopopokutuna@gmail.com>  
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>  
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>  
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>  
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>  
GitHub User @skanehira  
(7888591) <sho19921005@gmail.com>  
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>  
GitHub User @tell-k (26263) <ffk2005@gmail.com>  
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>  
GitHub User @uropek (39370426) <uropek@gmail.com>  
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>  
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>  
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>  
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>  
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>  
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>  
Giulio Iotti <dullgiulio@gmail.com>  
Giulio Micheloni <giulio.micheloni@gmail.com>  
Giuseppe Valente <gvalente@arista.com>  
Gleb Stepanov <glebstepanov1992@gmail.com>  
Glenn Brown <glennb@google.com>  
Glenn Lewis <gmlewis@google.com>  
Gordon Klaus <gordon.klaus@gmail.com>  
Gordon Tyler <gordon@doxxx.net>  
Graham King <graham4king@gmail.com>  
Graham Miller <graham.miller@gmail.com>  
Grant Griffiths <ggp493@gmail.com>  
Greg  
Poirier <greg.istehbest@gmail.com>  
Greg Steuck <gnezdo+github@google.com>  
Greg Thelen <gthelen@google.com>  
Greg Ward <greg@gerg.ca>  
Grgoire Delattre <gregoire.delattre@gmail.com>  
Gregory Man <man.gregory@gmail.com>  
Guilherme Caruso <gui.martinscaruso@gmail.com>  
Guilherme Garnier <guilherme.garnier@gmail.com>

Guilherme Goncalves <guilhermeaugustosg@gmail.com>  
Guilherme Rezende <guilhermebr@gmail.com>  
Guillaume J. Charmes <guillaume@charmes.net>  
Gnter Noack <gnoack@google.com>  
Guobiao Mei <meiguobiao@gmail.com>  
Guoliang Wang <iamwgliang@gmail.com>  
Gustav Paul <gustav.paul@gmail.com>  
Gustav Westling <gustav@westling.xyz>  
Gustavo Franco <gustavorfranco@gmail.com>  
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>  
Gwenael Treguier <gwenn.kahz@gmail.com>  
Gyu-Ho Lee <gyuhox@gmail.com>  
H. brahim Gngr <igungor@gmail.com>  
Hajime Hoshi <hajimehoshi@gmail.com>  
Hallgrimur Gunnarsson <halg@google.com>  
HAMANO Tsukasa <hamano@osstech.co.jp>  
Han-Wen Nienhuys <hanwen@google.com>  
Hang  
Qian <hangqian90@gmail.com>  
Hanjun Kim <hallazzang@gmail.com>  
Haosdent Huang <haosdent@gmail.com>  
Harald Nordgren <haraldnordgren@gmail.com>  
Hari haran <hariharan.uno@gmail.com>  
Hariharan Srinath <srinathh@gmail.com>  
Harley Laue <losinggeneration@gmail.com>  
Harry Moreno <morenoh149@gmail.com>  
Harshavardhana <hrshvardhana@gmail.com>  
Hasan Ozgan <hasan@ozgan.net>  
Hasit Bhatt <hasit.p.bhatt@gmail.com>  
Hauke Lffler <hloeffler@users.noreply.github.com>  
Hvard Haugen <havard.haugen@gmail.com>  
He Liu <liulonnie@gmail.com>  
Hector Chu <hectorchu@gmail.com>  
Hector Martin Cantero <hector@marcansoft.com>  
Henning Schmiedehausen <henning@schmiedehausen.org>  
Henrik Edwards <henrik.edwards@gmail.com>  
Henrik Hodne <henrik@hodne.io>  
Henry Adi Sumarto <henry.adisumarto@gmail.com>  
Henry Bubert <google@mindeco.de>  
Henry Chang <mr.changyuheng@gmail.com>  
Henry Clifford <h.a.clifford@gmail.com>  
Henry Wong <liushuai.wang@elastic.co>  
Herbert Georg Fischer <herbert.fischer@gmail.com>  
Herbie Ong <herbie@google.com>  
Heschi  
Kreinick <heschi@google.com>  
Hidetatsu Yaginuma <ygnmhdt@gmail.com>  
Hilko Bengen <bengen@hilluzination.de>

Hiroaki Nakamura <hnakamur@gmail.com>  
Hiromichi Ema <ema.hiro@gmail.com>  
Hironao OTSUBO <motemen@gmail.com>  
Hiroshi Ioka <hirochachacha@gmail.com>  
Hitoshi Mitake <mitake.hitoshi@gmail.com>  
Holden Huang <ttyh061@gmail.com>  
Hong Ruiqi <hongruiqi@gmail.com>  
Hongfei Tan <feilengcui008@gmail.com>  
Horst Rutter <hhrutter@gmail.com>  
Hossein Sheikh Attar <hattar@google.com>  
Howard Zhang <howard.zhang@arm.com>  
Hsin Tsao <tsao@google.com>  
Hsin-Ho Yeh <yhh92u@gmail.com>  
Hu Keping <hukeping@huawei.com>  
Huan Du <i@huandu.me>  
Hugues Bruant <hugues.bruant@gmail.com>  
Huy Le <huy.dinh.le.89@gmail.com>  
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>  
Ian Cottrell <iancottrell@google.com>  
Ian Davis <nospam@iandavis.com>  
Ian Gudger <ian@loosescre.ws>  
Ian Haken <ihaken@netflix.com>  
Ian Kent <iankent85@gmail.com>  
Ian Lance Taylor <iant@golang.org>  
Ian Leue <ian@appboy.com>  
Ian Zapolsky  
<ianzapolsky@gmail.com>  
Ibrahim AshShohail <ibra.sho@gmail.com>  
Icarus Sparry <golang@icarus.freeuk.com>  
Iccha Sethi <icchasethi@gmail.com>  
Idora Shinatose <idora.shinatose@gmail.com>  
Ignacio Hagopian <jsign.uy@gmail.com>  
Igor Bernstein <igorbernstein@google.com>  
Igor Dolzhikov <bluesriverz@gmail.com>  
Igor Vashyst <ivashyst@gmail.com>  
Igor Zhilianin <igor.zhilianin@gmail.com>  
Ilya Yalovyy <yalovoy@gmail.com>  
Ilya Sinelnikov <sidhmangh@gmail.com>  
Ilya Tocar <ilya.tocar@intel.com>  
INADA Naoki <songofacandy@gmail.com>  
Inanc Gumus <m@inanc.io>  
Ingo Gottwald <in.gottwald@gmail.com>  
Ingo Krabbe <ikrabbe.ask@gmail.com>  
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>  
Ioannis Georgoulas <geototti21@hotmail.com>  
Irbe Krumina <irbekrm@gmail.com>  
Irfan Sharif <irfanmahmoudsharif@gmail.com>  
Irieda Noboru <irieda@gmail.com>



Isaac Ardis <isaac.ardis@gmail.com>  
Isaac Wagner <ibw@isaacwagner.me>  
Isfan Azhabil <isfan.azhabil@tokopedia.com>  
Iskander Sharipov <iskander.sharipov@intel.com>  
<quasilyte@gmail.com>  
Issac Trotts <issactrotts@google.com>  
Ivan Babrou <ivan@cloudflare.com>  
Ivan Bertona <ivan.bertona@gmail.com>  
Ivan Krasin <krasin@golang.org>  
Ivan Kutuzov <arbrix@gmail.com>  
Ivan Markin <sw@nogoegst.net>  
Ivan Moscoso <moscoso@gmail.com>  
Ivan Osadchii <ivan.osadchii@gmail.com>  
Ivan Sharavuev <shpiwan@gmail.com>  
Ivan Trubach <mr.trubach@icloud.com>  
Ivan Ukhov <ivan.ukhov@gmail.com>  
Ivy Evans <ivy@ivyevans.net>  
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>  
Jaap Aarts <jaap.aarts1@gmail.com>  
Jack Britton <jackxbritton@gmail.com>  
Jack Lindamood <jlindamo@justin.tv>  
Jacob Baskin <jbaskin@google.com>  
Jacob Blain Christen <dweomer5@gmail.com>  
Jacob H. Haven <jacob@cloudflare.com>  
Jacob Hoffman-Andrews <github@hoffman-andrews.com>  
Jacob Walker <jacobwalker0814@gmail.com>  
Jae Kwon <jae@tendermint.com>  
Jake B <doogie1012@gmail.com>  
Jakob Borg <jakob@nym.se>  
Jakob Weisblat <jakobw@mit.edu>  
Jakub ajka <jcajka@redhat.com>  
Jakub Ryszard Czarnowicz  
<j.czarnowicz@gmail.com>  
Jamal Carvalho <jamal.a.carvalho@gmail.com>  
James Aguilar <jaguilar@google.com>  
James Bardin <j.bardin@gmail.com>  
James Chacon <jchacon@google.com>  
James Clarke <jrtc27@jrtc27.com>  
James Cowgill <James.Cowgill@imgtec.com>  
James Craig Burley <james-github@burleyarch.com>  
James David Chalfant <james.chalfant@gmail.com>  
James Eady <jmeady@google.com>  
James Fysh <james.fysh@gmail.com>  
James Gray <james@james4k.com>  
James Hartig <fastest963@gmail.com>  
James Lawrence <jljatone@gmail.com>  
James Meneghello <rawrz0r@gmail.com>  
James Myers <jfmyers9@gmail.com>

James Neve <jamesoneve@gmail.com>  
James Nugent <james@jen20.com>  
James P. Cooper <jamespcooper@gmail.com>  
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>  
James Schofield <james@shoeboxapp.com>  
James Smith <jrs1995@icloud.com>  
James Sweet <james.sweet88@googlemail.com>  
James Toy <nil@opensesame.st>  
James Treanor <jtreanor3@gmail.com>  
James Tucker <raggi@google.com>  
James Whitehead <jnwhiteh@gmail.com>  
Jamie  
Beverly <jamie.r.beverly@gmail.com>  
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>  
Jamie Kerr <jkerr113@googlemail.com>  
Jamie Liu <jamieliu@google.com>  
Jamie Stackhouse <contin673@gmail.com>  
Jamie Turner <jamwt@dropbox.com>  
Jamie Wilkinson <jaq@spacepants.org>  
Jamil Djadala <djadala@gmail.com>  
Jan Berktold <jan@berktold.co>  
Jan H. Hosang <jan.hosang@gmail.com>  
Jan Kratochvil <jan.kratochvil@redhat.com>  
Jan Lehnardt <jan@apache.org>  
Jan Mercl <0xjnml@gmail.com> <befelemepeseveze@gmail.com>  
Jan Newmarch <jan.newmarch@gmail.com>  
Jan Pilzer <jan.pilzer@gmx.de>  
Jan Steinke <jan.steinke@gmail.com>  
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>  
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>  
Jannis Andrija Schnitzer <jannis@schnitzer.im>  
Jared Culp <jculp14@gmail.com>  
Jaroslav Poepko <jp@webmaster.ms>  
Jason A. Donenfeld <Jason@zx2c4.com>  
Jason Baker <jason-baker@users.noreply.github.com>  
Jason Barnett <jason.w.barnett@gmail.com>  
Jason Buberel <jbuberel@google.com>  
Jason Chu  
<jasonchujc@gmail.com>  
Jason Del Ponte <delpontej@gmail.com>  
Jason Hall <jasonhall@google.com>  
Jason Keene <jasonkeene@gmail.com>  
Jason LeBrun <jblebrun@gmail.com>  
Jason Smale <jsmale@zendesk.com>  
Jason Travis <infomaniac7@gmail.com>  
Jason Wangsadinata <jwangsadinata@gmail.com>  
Javier Kohen <jkohen@google.com>  
Javier Revillas <jrevillas@massivedynamic.io>

Javier Segura <javism@gmail.com>  
Jay Conrod <jayconrod@google.com>  
Jay Taylor <outtatime@gmail.com>  
Jay Weisskopf <jay@jayschwa.net>  
Jean de Klerk <deklerk@google.com>  
Jean-Andr Santoni <jean.andre.santoni@gmail.com>  
Jean-Franois Bustarret <jf@bustarret.com>  
Jean-Francois Cantin <jfcantin@gmail.com>  
Jean-Marc Eurin <jmeurin@google.com>  
Jean-Nicolas Moal <jn.moal@gmail.com>  
Jed Denlea <jed@fastly.com>  
Jdrzej Szczepaniak <jbszczepaniak@gmail.com>  
Jeet Parekh <jeetparekh96@gmail.com>  
Jeevanandam M <jeeva@myjeeva.com>  
Jeff (Zhefu) Jiang <jeffjiang@google.com>  
Jeff Craig <jeffcraig@google.com>  
Jeff Dupont <jeff.dupont@gmail.com>  
Jeff Hodges  
<jeff@somethingsimilar.com>  
Jeff Johnson <jrjohnson@google.com>  
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>  
Jeff Sickel <jas@corpus-callosum.com>  
Jeff Wendling <jeff@spacemonkey.com>  
Jeffrey H <jeffreyh192@gmail.com>  
Jelte Fennema <github-tech@jeltef.nl>  
Jens Frederich <jfrederich@gmail.com>  
Jeremiah Harmsen <jeremiah@google.com>  
Jeremy Banks <\_@jeremy.ca>  
Jeremy Canady <jcanady@gmail.com>  
Jeremy Faller <jeremy@golang.org>  
Jeremy Jackins <jeremyjackins@gmail.com>  
Jeremy Jay <jeremy@pbnjay.com>  
Jeremy Schlatter <jeremy.schlatter@gmail.com>  
Jeroen Bobbeldijk <jerbob92@gmail.com>  
Jeroen Simonetti <jeroen@simonetti.nl>  
Jerrin Shaji George <jerrinsg@gmail.com>  
Jess Frazelle <me@jessfraz.com>  
Jesse Szwedko <jesse.szwedko@gmail.com>  
Jess Espino <jespinog@gmail.com>  
Jianing Yu <jnyu@google.com>  
Jianqiao Li <jianqiaoli@google.com>  
Jihyun Yu <yjh0502@gmail.com>  
Jim Cote <jfcote87@gmail.com>  
Jim Kingdon <jim@bolt.me>  
Jim McGrath <jimmc2@gmail.com>  
Jim Minter <jminter@redhat.com>  
Jimmy

Frasche <soapboxcicero@gmail.com>  
Jimmy Zelinskie <jimmyzelinskie@gmail.com>  
Jin-wook Jeong <jeweljar@hanmail.net>  
Jingcheng Zhang <diogin@gmail.com>  
Jingguo Yao <yaojingguo@gmail.com>  
Jingnan Si <jingnan.si@gmail.com>  
Jinkun Zhang <franksnolf@gmail.com>  
Jiong Du <londevil@gmail.com>  
Jirka Dank <dnk@mail.muni.cz>  
Jiulong Wang <jiulongw@gmail.com>  
Joakim Sernbrant <serbaut@gmail.com>  
Joe Bowbeer <joe.bowbeer@gmail.com>  
Joe Cortopassi <joe@joecortopassi.com>  
Joe Farrell <joe2farrell@gmail.com>  
Joe Harrison <joehazzers@gmail.com>  
Joe Henke <joed.henke@gmail.com>  
Joe Kyo <xunianzu@gmail.com>  
Joe Poirier <jdpoirier@gmail.com>  
Joe Richey <joerichey@google.com>  
Joe Shaw <joe@joeshaw.org>  
Joe Sylve <joe.sylve@gmail.com>  
Joe Tsai <joetsai@digital-static.net>  
Joel Sing <joel@sing.id.au> <jsing@google.com>  
Jol Stemmer <jstemmer@google.com>  
Joel Stemmer <stemmertech@gmail.com>  
Joey Geiger <jgeiger@users.noreply.github.com>  
Johan Brandhorst <johan.brandhorst@gmail.com>  
Johan Euphrosine <proppy@google.com>  
Johan  
Jansson <johan.jansson@iki.fi>  
Johan Sageryd <j@1616.se>  
John Asmuth <jasmuth@gmail.com>  
John Beisley <huin@google.com>  
John C Barstow <jbowtie@amathaine.com>  
John DeNero <denero@google.com>  
John Dethridge <jcd@golang.org>  
John Gibb <johngibb@gmail.com>  
John Gilik <john@jgilik.com>  
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>  
John Howard Palevich <jack.palevich@gmail.com>  
John Jeffery <jjeffery@sp.com.au>  
John Jenkins <twodopeshaggy@gmail.com>  
John Leidegren <john.leidegren@gmail.com>  
John Moore <johnkenneth.moore@gmail.com>  
John Newlin <jnewlin@google.com>  
John Papandriopoulos <jpap.code@gmail.com>  
John Potocny <johnp@vividcortex.com>  
John R. Lenton <jlenton@gmail.com>

John Schnake <schnake.john@gmail.com>  
John Shahid <jvshahid@gmail.com>  
John Tuley <john@tuley.org>  
John Weldon <johnweldon4@gmail.com>  
Johnny Luo <johnnyluo1980@gmail.com>  
Jon Chen <jchen@justin.tv>  
Jonas Bernoulli <jonas@bernoul.li>  
Jonathan Allie <jonallie@google.com>  
Jonathan Amsterdam <jba@google.com>  
Jonathan  
Boulle <jonathanboulle@gmail.com>  
Jonathan Chen <dijonkitchen@users.noreply.github.com>  
Jonathan Feinberg <feinberg@google.com>  
Jonathan Gold <jgold.bg@gmail.com>  
Jonathan Hseu <jhseu@google.com>  
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>  
Jonathan Nieder <jrn@google.com>  
Jonathan Pentecost <pentecostjonathan@gmail.com>  
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>  
Jonathan Rudenberg <jonathan@titanous.com>  
Jonathan Stacks <jonstacks13@gmail.com>  
Jonathan Wills <runningwild@gmail.com>  
Jonathon Lacher <jonathon.lacher@gmail.com>  
Jongmin Kim <atomaths@gmail.com>  
Joonas Kuorilehto <joneskoo@derbian.fi>  
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>  
Jordan Krage <jmank88@gmail.com>  
Jordan Lewis <jordanthelewis@gmail.com>  
Jordan Liggitt <liggitt@google.com>  
Jordan Rhee <jordanrh@microsoft.com>  
Jordi Martin <jordimartin@gmail.com>  
Jorge Araya <jorgejavieran@yahoo.com.mx>  
Jorge L. Fatta <jorge.fatta@auth0.com>  
Jos Visser <josv@google.com>  
Josa  
Gesell <josa@gesell.me>  
Jose Luis Vzquez Gonzlez <josvazg@gmail.com>  
Joseph Bonneau <jcb@google.com>  
Joseph Holsten <joseph@josephholsten.com>  
Josh Bleecher Snyder <josharian@gmail.com>  
Josh Chorlton <jchorlton@gmail.com>  
Josh Deprez <josh.deprez@gmail.com>  
Josh Goebel <dreamer3@gmail.com>  
Josh Hoak <jhoak@google.com>  
Josh Holland <jrh@joshh.co.uk>  
Josh Roppo <joshroppo@gmail.com>  
Josh Varga <josh.varga@gmail.com>  
Joshua Boelter <joshua.boelter@intel.com>

Joshua Chase <jcjosuachase@gmail.com>  
Joshua M. Clulow <josh.clulow@joyent.com>  
Joshua Rubin <joshua@rubixconsulting.com>  
Josselin Costanzi <josselin@costanzi.fr>  
Jostein Stuhaug <js@solidsystem.no>  
JP Sugarbroad <jpsugar@google.com>  
JT Olds <jtolds@xnet5.com>  
JT Olio <hello@jtolio.com>  
Juan Carlos <juanjcsr@gmail.com>  
Juan Pablo Civile <elementohb@gmail.com>  
Jude Pereira <judebpereira@gmail.com>  
Jukka-Pekka Kekkonen <karatepekka@gmail.com>  
Julia Hansbrough <flowerhack@google.com>  
Julian Kornberger <jk+github@digineo.de>  
Julian  
Pastarmov <pastarmovj@google.com>  
Julian Phillips <julian@quantumfyre.co.uk>  
Julian Tibble <julian.tibble@gmail.com>  
Julie Qiu <julie@golang.org>  
Julien Kauffmann <julien.kauffmann@freelan.org>  
Julien Salleyron <julien.salleyron@gmail.com>  
Julien Schmidt <google@julienschmidt.com>  
Julio Montes <julio.montes@intel.com>  
Jun Zhang <jim.zoumo@gmail.com>  
Junda Liu <junda@celer.network>  
Jungho Ahn <jhahn@google.com>  
Junya Hayashi <ledmonster@gmail.com>  
Juraj Sukop <sukop@users.noreply.github.com>  
Jure Ham <jure.ham@zemanta.com>  
Justin Gracenin <jgracenin@gmail.com>  
Justin Li <git@justinli.net>  
Justin Nu <nuss.justin@gmail.com>  
Justyn Temme <justyntemme@gmail.com>  
Kai Backman <kaib@golang.org>  
Kai Dong <dokia2357@gmail.com>  
Kai Trukenmller <ktye78@gmail.com>  
Kale Blankenship <kale@lemnisis.com>  
Kaleb Elwert <kelwert@atlassian.com>  
Kalman Bekesi <kalmanb@google.com>  
Kamal Aboul-Hosn <aboulhosn@google.com>  
Kamil Chmielewski <kamil.chm@gmail.com>  
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>  
Kamil  
Rytarowski <krytarowski@users.noreply.github.com>  
Kang Hu <hukangustc@gmail.com>  
Kanta Ebihara <kantaebihara@gmail.com>  
Karan Dhiman <karandhi@ca.ibm.com>  
Karel Pazdera <pazderak@gmail.com>

Karoly Negyesi <chx1975@gmail.com>  
Karsten Khler <karsten.koehler95@gmail.com>  
Karthik Nayak <karthik.188@gmail.com>  
Kashav Madan <kshvmdn@gmail.com>  
Kate Manson <kate.manson@izettle.com>  
Katharine Berry <ktbry@google.com>  
Katie Hockman <katie@golang.org>  
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>  
Katrina Owen <katrina.owen@gmail.com>  
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>  
Kay Zhu <kayzhu@google.com>  
Kazuhiro Sera <seratch@gmail.com>  
KB Sriram <kbsriram@google.com>  
Keegan Carruthers-Smith <keegan.csmith@gmail.com>  
Kei Son <hey.calmdown@gmail.com>  
Keiji Yoshida <keijiyoshida.mail@gmail.com>  
Keisuke Kishimoto <keisuke.kishimoto@gmail.com>  
Keith Ball <inflatablewoman@gmail.com>  
Keith Randall <khr@golang.org>  
Keith Rarick <kr@xph.us>  
Kelly Heller <pestophagous@gmail.com>  
Kelsey  
Hightower <kelsey.hightower@gmail.com>  
Kelvin Foo Chuan Lyi <vmirage@gmail.com>  
Ken Friedenbach <kenliz@cruzio.com>  
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>  
Ken Sedgwick <ken@bonsai.com>  
Ken Thompson <ken@golang.org>  
Kenichi Tsunokawa <kenichi.tsunokawa@gmail.com>  
Kenji Kaneda <kenji.kaneda@gmail.com>  
Kenji Yano <kenji.yano@gmail.com>  
Kenneth Shaw <kenshaw@gmail.com>  
Kenny Grant <kennygrant@gmail.com>  
Kenta Mori <zoncoen@gmail.com>  
Ketan Parmar <ketanbparmar@gmail.com>  
Kevan Swanberg <kevswanberg@gmail.com>  
Kevin Ballard <kevin@sb.org>  
Kevin Burke <kev@inburke.com>  
Kvin Dunglas <dunglas@gmail.com>  
Kevin Gillette <extemporalgenome@gmail.com>  
Kevin Kirsche <kev.kirsche@gmail.com>  
Kevin Klues <klueska@gmail.com> <klueska@google.com>  
Kevin Malachowski <chowski@google.com>  
Kevin Ruffin <kruffin@gmail.com>  
Kevin Vu <kevin.m.vu@gmail.com>  
Kevin Zita <bleedgreenandgold@gmail.com>  
Kieran Colford <kieran@kcolford.com>  
Kim Shrier <kshrier@racktopsystems.com>

Kim Yongbin <kybinz@gmail.com>  
Kir  
Kolyshkin <kolyshkin@gmail.com>  
Kirill Motkov <Motkov.Kirill@gmail.com>  
Kirill Smelkov <kirr@nexedi.com>  
Kirill Tatchihin <kirabsuir@gmail.com>  
Kirk Han <kirk91.han@gmail.com>  
Kirklin McDonald <kirklin.mcdonald@gmail.com>  
Klaus Post <klauspost@gmail.com>  
Kodie Goodwin <kodiegoodwin@gmail.com>  
Koichi Shiraishi <zchee.io@gmail.com>  
Koki Ide <niconegoto@yahoo.co.jp>  
Koki Tomoshige <tomocy.dev@gmail.com>  
Komu Wairagu <komuw05@gmail.com>  
Konstantin <konstantin8105@gmail.com>  
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>  
Koya IWAMURA <kiwamura0314@gmail.com>  
Kris Kwiatkowski <kris@cloudflare.com>  
Kris Nova <kris@nivenly.com>  
Kris Rousey <krousey@google.com>  
Kristopher Watts <traetox@gmail.com>  
Kshitij Saraogi <kshitijgaraogi@gmail.com>  
Kun Li <likunarmstrong@gmail.com>  
Kunpei Sakai <namusyaka@gmail.com>  
Kuntal Majumder <hellozee@disroot.org>  
Kyle Consalus <consalus@gmail.com>  
Kyle Isom <kyle@gokyle.net>  
Kyle Jones <kyle@kyledj.com>  
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>  
Kyle  
Shannon <kyle@pobox.com>  
Kyle Spiers <eiais@google.com>  
Kyle Wood <kyle@kylewood.cc>  
Kyohei Kadota <lufia@lufia.org>  
Kyrylo Silin <silin@kyrylo.org>  
L Campbell <unpantsu@gmail.com>  
Lai Jiangshan <eag0628@gmail.com>  
Lajos Papp <lalyos@yahoo.com>  
Lakshay Garg <lakshay.garg.1996@gmail.com>  
Lann Martin <lannm@google.com>  
Lanre Adelowo <yo@lanre.wtf>  
Larry Clapp <larry@theclapp.org>  
Larry Hosken <lahosken@golang.org>  
Lars Jeppesen <jeppesen.lars@gmail.com>  
Lars Lehtonen <lars.lehtonen@gmail.com>  
Lars Wiegman <lars@namsral.com>  
Larz Conwell <larzconwell@gmail.com>  
Laurent Voisin <lpvoisin@gmail.com>



Laurie Clark-Michalek <laurie@qubit.com>  
LE Manh Cuong <cuong.manhle.vn@gmail.com>  
Lee Hinman <hinman@gmail.com>  
Lee Packham <lpackham@gmail.com>  
Lehner Florian <dev@der-flo.net>  
Leigh McCulloch <leighmcc@gmail.com>  
Leo Antunes <leo@costela.net>  
Leo Rudberg <ljr@google.com>  
Leon Klingele <git@leonklingele.de>  
Leonardo Comelli <leonardo.comelli@gmail.com>  
Leonel Quinteros <leonel.quinteros@gmail.com>  
Lev  
Shamardin <shamardin@gmail.com>  
Lewin Bormann <lewin.bormann@gmail.com>  
Lion Yang <lion@aosc.xyz>  
Liz Rice <liz@lizrice.com>  
Lloyd Dewolf <foolswisdom@gmail.com>  
Lorenz Bauer <lmb@cloudflare.com>  
Lorenz Brun <lorenz@brun.one>  
Lorenz Nickel <mail@lorenznickel.de>  
Lorenzo Masini <rugginoso@develer.com>  
Lorenzo Stoakes <lstoakes@gmail.com>  
Louis Kruger <louisk@google.com>  
Luan Santos <cfcluan@gmail.com>  
Lubomir I. Ivanov <neolit123@gmail.com>  
Luca Bruno <luca.bruno@coreos.com>  
Luca Greco <luca.greco@alcacoop.it>  
Lucas Bremgartner <lucas.bremgartner@gmail.com>  
Lucas Clemente <lclemente@google.com>  
Lucien Stuker <lucien.stuker@gmail.com>  
Lucio De Re <lucio.dere@gmail.com>  
Ludi Rehak <ludi317@gmail.com>  
Luigi Riefolo <luigi.riefolo@gmail.com>  
Luit van Drongelen <luitvd@gmail.com>  
Luka Zakrajek <tr00.g33k@gmail.com>  
Luka Zitnik <luka.zitnik@gmail.com>  
Lukasz Milewski <lmmilewski@gmail.com>  
Luke Champine <luke.champine@gmail.com>  
Luke Curley <qpingu@gmail.com>  
Luke Granger-Brown  
<git@lukegb.com>  
Luke Young <bored-engineer@users.noreply.github.com>  
Luna Duclos <luna.duclos@palmstonegames.com>  
Luuk van Dijk <lvd@golang.org> <lvd@google.com>  
Lyle Franklin <lylejfranklin@gmail.com>  
Lynn Boger <laboger@linux.vnet.ibm.com>  
Ma Peiqi <mapeiqi2017@gmail.com>  
Maarten Bezemer <maarten.bezemer@gmail.com>

Maciej Dbski <maciejd@google.com>  
Madhu Rajanna <madhupr007@gmail.com>  
Magnus Hiie <magnus.hiie@gmail.com>  
Maicon Costa <maiconscosta@gmail.com>  
Mak Kolybabi <mak@kolybabi.com>  
Maksym Trykur <maksym.trykur@gmail.com>  
Mal Curtis <mal@mal.co.nz>  
Manfred Touron <m@42.am>  
Manigandan Dharmalingam <manigandan.jeff@gmail.com>  
Manish Goregaokar <manishsmail@gmail.com>  
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>  
Mansour Rahimi <rahimi.mnr@gmail.com>  
Manu Garg <manugarg@google.com>  
Manu S Ajith <neo@codingarena.in>  
Manuel Mendez <mmendez534@gmail.com>  
Marat Khabibullin <marat.khabibullin@jetbrains.com>  
Marc Sanmiquel <marcsanmiquel@gmail.com>  
Marc  
Weistroff <marc@weistroff.net>  
Marc-Antoine Ruel <maruel@chromium.org>  
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>  
Marcel van Lohuizen <mpvl@golang.org>  
Marcelo Cantos <marcelo.cantos@gmail.com>  
Marcelo E. Magallon <marcelo.magallon@gmail.com>  
Marco Hennings <marco.hennings@freiheit.com>  
Marcus Willock <crazcalm@gmail.com>  
Marga Manterola <marga@google.com>  
Mariano Cano <mariano@smallstep.com>  
Marin Bai <marin.basic02@gmail.com>  
Mario Arranz <marioarranzr@gmail.com>  
Marius A. Eriksen <marius@grailbio.com>  
Marius Nuennerich <mnu@google.com>  
Mark Adams <mark@markadams.me>  
Mark Bucciarelli <mkbucc@gmail.com>  
Mark Glines <mark@glines.org>  
Mark Harrison <marhar@google.com>  
Mark Percival <m@mdp.im>  
Mark Pulford <mark@kyne.com.au>  
Mark Rushakoff <mark.rushakoff@gmail.com>  
Mark Ryan <mark.d.ryan@intel.com>  
Mark Severson <miquella@gmail.com>  
Mark Theunissen <mark.theunissen@gmail.com>  
Mark Villacampa <m@markvillacampa.com>  
Mark Wolfe <mark@wolfe.id.au>  
Mark Zavislak <zavislak@google.com>  
Marko  
Juhani Silokunnas <marko.silokunnas@gmail.com>  
Marko Kevac <marko@kevac.org>

Marko Kungla <marko.kungla@gmail.com>  
Marko Mikulicic <mkm@google.com>  
Marko Mudrinic <mudrinic.mare@gmail.com>  
Marko Tiikkaja <marko@joh.to>  
Markus Duft <markus.duft@salomon.at>  
Markus Sonderegger <marraison@gmail.com>  
Markus Zimmermann <zimmski@gmail.com>  
Marten Seemann <martenseemann@gmail.com>  
Martin Bertschler <mbertschler@gmail.com>  
Martin Garton <garton@gmail.com>  
Martin Habbecke <marhab@google.com>  
Martin Hamrle <martin.hamrle@gmail.com>  
Martin Hoefling <martin.hoefling@gmx.de>  
Martin Kreichgauer <martinkr@google.com>  
Martin Kunc <martinkunc@users.noreply.github.com>  
Martin Lindhe <martin.j.lindhe@gmail.com>  
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>  
Martin Neubauer <m.ne@gmx.net>  
Martin Olsen <github.com@martinolsen.net>  
Martin Olsson <martin@minimum.se>  
Martin Probst <martin@probst.io>  
Martin Sucha <anty.sk+git@gmail.com>  
Martin Tournoij <martin@arp242.net>  
Martins Sipenko <martins.sipenko@gmail.com>  
Martynas  
Budrinis <mabu@google.com>  
Marvin Stenger <marvin.stenger94@gmail.com>  
Marwan Sulaiman <marwan.sulaiman@work.co>  
Maryan Hratson <gmarik@gmail.com>  
Masahiro Furudate <masahiro.furudate@gmail.com>  
Masahiro Wakame <vvakame@gmail.com>  
Masaki Yoshida <yoshida.masaki@gmail.com>  
Mat Byczkowski <mbyczkowski@gmail.com>  
Mat Ryer <thatmatryer@gmail.com>  
Mt Gulys <mgulyas86@gmail.com>  
Matej Bao <matejbaco@gmail.com>  
Mateus Amin <mateus.amin@gmail.com>  
Mateusz Czapliski <czapkofan@gmail.com>  
Mathias Beke <git@denbeke.be>  
Mathias Hall-Andersen <mathias@hall-andersen.dk>  
Mathias Leppich <mleppich@muhqu.de>  
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>  
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>  
Matt Aimonetti <mattaimonetti@gmail.com>  
Matt Blair <me@matthewblair.net>  
Matt Bostock <matt@mattbostock.com>  
Matt Brown <mbrown@google.com>  
Matt Dee <mdee@hioscar.com>

Matt Drollette <matt@drollette.com>  
Matt Harden <matt.harden@gmail.com>  
Matt Jibson <matt.jibson@gmail.com>  
Matt  
Joiner <anacrolix@gmail.com>  
Matt Jones <mrjones@google.com>  
Matt Juran <thepciet@gmail.com>  
Matt Layher <mdllyher@gmail.com>  
Matt Reiferson <mreiferson@gmail.com>  
Matt Robenolt <matt@ydekproductions.com>  
Matt Strong <mstrong1341@gmail.com>  
Matt T. Proud <matt.proud@gmail.com>  
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>  
Matthew Brennan <matty.brennan@gmail.com>  
Matthew Broberg <matthewbbroberg@gmail.com>  
Matthew Cottingham <mattcottingham@gmail.com>  
Matthew Dempsky <mdempsky@google.com>  
Matthew Denton <mdenton@skyportsystems.com>  
Matthew Holt <Matthew.Holt+git@gmail.com>  
Matthew Horsnell <matthew.horsnell@gmail.com>  
Matthew Waters <mwwaters@gmail.com>  
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>  
Matthieu Olivier <olivier.matthieu@gmail.com>  
Matthijs Kooijman <matthijs@stdin.nl>  
Max Riveiro <kavu13@gmail.com>  
Max Schmitt <max@schmitt.mx>  
Max Semenik <maxsem.wiki@gmail.com>  
Max Ushakov <ushmax@gmail.com>  
Maxim Eryomenko <moeryomenko@gmail.com>  
Maxim  
Khitrov <max@mxcrypt.com>  
Maxim Pimenov <mpimenov@google.com>  
Maxim Ushakov <ushakov@google.com>  
Maxime de Roucy <maxime.deroucy@gmail.com>  
Mximo Cuadros Ortiz <mcuadros@gmail.com>  
Maxwell Krohn <themax@gmail.com>  
Maya Rashish <maya@NetBSD.org>  
Mayank Kumar <krmayankk@gmail.com>  
Meir Fischer <meirfischer@gmail.com>  
Meng Zhuo <mengzhuo1203@gmail.com>  
Mhd Sulhan <m.shulhan@gmail.com>  
Micah Stetson <micah.stetson@gmail.com>  
Michael Anthony Knyszek <mknyszek@google.com>  
Michael Brandenburg <mbrandenburg@bolste.com>  
Michael Chaten <mchaten@gmail.com>  
Michael Cook <code@mdcook.net>  
Michael Darakananda <pongad@google.com>  
Michael Dorner <mail@michaeldorner.de>

Michael Edwards <medwards@walledcity.ca>  
Michael Elkins <michael.elkins@gmail.com>  
Michael Ellis <micellis@justin.tv>  
Michael Fraenkel <michael.fraenkel@gmail.com>  
Michael Fromberger <michael.j.fromberger@gmail.com>  
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>  
Michael Henderson <mdhender@users.noreply.github.com>  
Michael  
Hendricks <michael@ndrix.org>  
Michael Hoisie <hoisie@gmail.com>  
Michael Hudson-Doyle <michael.hudson@linaro.org>  
Michael Kasch <michael.kasch@gmail.com>  
Michael Kufl <golang@c.michael-kaeufl.de>  
Michael Kelly <mjk@google.com>  
Michael Lewis <mikelikespie@gmail.com>  
Michael MacInnis <Michael.P.MacInnis@gmail.com>  
Michael Marineau <michael.marineau@coreos.com>  
Michael Matloob <matloob@google.com>  
Michael McConville <momconville@gmail.com>  
Michael McGreevy <mcgreevy@golang.org>  
Michael McLoughlin <mmcloughlin@gmail.com>  
Michael Munday <mike.munday@ibm.com>  
Michael Pearson <mipearson@gmail.com>  
Michael Piatek <piatek@google.com>  
Michael Pratt <mpratt@google.com>  
Michael Schaller <michael@5challer.de>  
Michael Schurter <michael.schurter@gmail.com>  
Michael Shields <mshields@google.com>  
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>  
Michael Steinert <mike.steinert@gmail.com>  
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>  
Michael Teichgrber <mteichgrber@gmx.de>  
<mt4swm@googlemail.com>  
Michael Traver <mtraver@google.com>  
Michael Vetter <g.bluehut@gmail.com>  
Michael Vogt <mvo@ubuntu.com>  
Michal Bohuslvek <mbohuslvek@gmail.com>  
Michal Cierniak <cierniak@google.com>  
Micha Derkacz <ziutek@lnet.pl>  
Michal Franc <lam.michal.franc@gmail.com>  
Michal Pristas <michal.pristas@gmail.com>  
Michal Rostecki <mrostecki@suse.de>  
Michalis Kargakis <michaliskargakis@gmail.com>  
Michel Lespinasse <>walken@google.com>  
Mickael Kerjean <mickael.kerjean@gmail.com>  
Mickey Reiss <mickeyreiss@gmail.com>  
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>  
Miguel Mendez <stxmendez@gmail.com>

Miguel Molina <hi@mvader.me>  
Mihai Borobocea <MihaiBorobocea@gmail.com>  
Mihai Moldovan <ionic@ionic.de>  
Mihai Todor <todormihai@gmail.com>  
Mihail Minaev <minaev.mike@gmail.com>  
Mikael Tillenius <mikti42@gmail.com>  
Mike Andrews <mra@xoba.com>  
Mike Appleby <mike@app.leby.org>  
Mike Danese <mikedanese@google.com>  
Mike Houston <mike@kothar.net>  
Mike Kabischev <kabischev@gmail.com>  
Mike  
Rosset <mike.rosset@gmail.com>  
Mike Samuel <mikesamuel@gmail.com>  
Mike Solomon <msolo@gmail.com>  
Mike Strosaker <strosake@us.ibm.com>  
Mike Tsao <mike@sowbug.com>  
Mike Wiacek <mjwiacek@google.com>  
Mikhail Fesenko <proggga@gmail.com>  
Mikhail Gusarov <dottedmag@dottedmag.net>  
Mikhail Panchenko <m@mihasya.com>  
Miki Tebeka <miki.tebeka@gmail.com>  
Mikio Hara <mikioh.mikioh@gmail.com>  
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>  
Mikoaj Baranowski <mikolajb@gmail.com>  
Milan Knezevic <milan.knezevic@mips.com>  
Milutin Jovanovic <jovanovic.milutin@gmail.com>  
MinJae Kwon <mingrammer@gmail.com>  
Miquel Sabat Sol <mikisabate@gmail.com>  
Mirko Hansen <baaazen@gmail.com>  
Miroslav Genov <mgenov@gmail.com>  
Misty De Meo <mistydemeo@gmail.com>  
Mohit Agarwal <mohit@sdf.org>  
Mohit kumar Bajoria <mohitbajo36@gmail.com>  
Mohit Verma <vmohit.93@gmail.com>  
Momchil Velikov <momchil.velikov@gmail.com>  
Monis Khan <mkhan@redhat.com>  
Monty Taylor <mordred@inaugust.com>  
Moritz Fain <moritz@fain.io>  
Moriyoshi Koizumi  
<mozo@mozo.jp>  
Morten Siebuhr <sbhr@sbhr.dk>  
Mshe van der Sterre <moshevds@gmail.com>  
Mostyn Bramley-Moore <mostyn@antipode.se>  
Mrunal Patel <mrunalp@gmail.com>  
Muhammad Falak R Wani <falakreyaz@gmail.com>  
Muhammed Uluyol <uluyol0@gmail.com>  
Muir Manders <muir@mnd.rs>

Mura Li <mura\_li@castech.com.tw>  
Mykhailo Lesyk <mikhail@lesyk.org>  
Nan Deng <monnand@gmail.com>  
Nao Yonashiro <owan.orisano@gmail.com>  
Naoki Kanatani <k12naoki@gmail.com>  
Nate Wilkinson <nathanwilk7@gmail.com>  
Nathan Cantelmo <n.cantelmo@gmail.com>  
Nathan Caza <mastercactapus@gmail.com>  
Nathan Dias <nathan.dias@orijtech.com>  
Nathan Humphreys <nkhumphreys@gmail.com>  
Nathan John Youngman <nj@nathany.com>  
Nathan Otterness <otterness@cs.unc.edu>  
Nathan P Finch <nate.finch@gmail.com>  
Nathan VanBenschoten <nvanbenschoten@gmail.com>  
Nathan Youngman <git@nathany.com>  
Nathan(yinian) Hu <nathanhu@google.com>  
Nathaniel Cook <nvcook42@gmail.com>  
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>  
Neelesh Chandola <neelesh.c98@gmail.com>  
Neil  
Lyons <nwjlyons@googlemail.com>  
Neuman Vong <neuman.vong@gmail.com>  
Neven Sajko <nsajko@gmail.com>  
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>  
Niall Sheridan <nsheridan@gmail.com>  
Nic Day <nic.day@me.com>  
Nicholas Katsaros <nick@nickkatsaros.com>  
Nicholas Maniscalco <nicholas@maniscalco.com>  
Nicholas Ng <nickng@nickng.io>  
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>  
Nicholas Sullivan <nicholas.sullivan@gmail.com>  
Nicholas Waples <nwaples@gmail.com>  
Nick Anthony <Liberatys@outlook.com>  
Nick Cooper <nmvc@google.com>  
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>  
Nick Harper <nharper@google.com>  
Nick Kubala <nkubala@google.com>  
Nick Leli <nicholasleli@gmail.com>  
Nick Miyake <nmiyake@users.noreply.github.com>  
Nick Patavalis <nick.patavalis@gmail.com>  
Nick Petroni <npetroni@cs.umd.edu>  
Nick Robinson <nrobinson13@gmail.com>  
Nick Smolin <nick27surgut@gmail.com>  
Nicolas BRULEZ <n.brulez@gmail.com>  
Nicolas Kaiser <nikai@nikai.net>  
Nicolas Owens <mischief@offblast.org>  
Nicolas

S. Dade <nic.dade@gmail.com>  
Niek Sanders <niek.sanders@gmail.com>  
Niels Widger <niels.widger@gmail.com>  
Nigel Kerr <nigel.kerr@gmail.com>  
Nigel Tao <nigeltao@golang.org>  
Nik Nyby <nnyby@columbia.edu>  
Nikhil Benesch <nikhil.benesch@gmail.com>  
Nikita Kryuchkov <nkryuchkov10@gmail.com>  
Nikita Vanyasin <nikita.vanyasin@gmail.com>  
Niklas Schnelle <niklas.schnelle@gmail.com>  
Niko Dziemba <niko@dziemba.com>  
Nikolay Turpitko <nikolay@turpitko.com>  
Nils Larsgrd <nilsmagnus@gmail.com>  
Nir Soffer <nirsof@gmail.com>  
Niranjan Godbole <niranjan8192@gmail.com>  
Nishanth Shanmugham <nishanth.gerrard@gmail.com>  
Noah Campbell <noahcampbell@gmail.com>  
Noble Johnson <noblepoly@gmail.com>  
Nodir Turakulov <nodir@google.com>  
Noel Georgi <git@frezbo.com>  
Norberto Lopes <nlopes.ml@gmail.com>  
Norman B. Lancaster <qbradq@gmail.com>  
Nuno Cruces <ncruces@users.noreply.github.com>  
Odin Ugedal <odin@ugedal.com>  
Oleg Bulatov <dmage@yandex-team.ru>  
Oleg Vakheta <helginet@gmail.com>  
Oleku Konko  
<oleku.konko@gmail.com>  
Oling Cat <olingcat@gmail.com>  
Oliver Hookins <ohookins@gmail.com>  
Oliver Powell <oliverpowell84@gmail.com>  
Oliver Stenbom <ostenbom@pivotal.io>  
Oliver Tonnhofer <olt@bogsoft.com>  
Olivier Antoine <olivier.antoine@gmail.com>  
Olivier Duperray <duperray.olivier@gmail.com>  
Olivier Poitrey <rs@dailymotion.com>  
Olivier Saingre <osaingre@gmail.com>  
Omar Jarjur <ojarjur@google.com>  
Oryan Moshe <iamoryanmoshe@gmail.com>  
Osamu TONOMORI <osamingo@gmail.com>  
zgr Kesim <oec-go@kesim.org>  
Pablo Lalloni <plalloni@gmail.com>  
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>  
Pablo Santiago Blum de Aguiar <scorpus@gmail.com>  
Padraig Kitterick <padraigkitterick@gmail.com>  
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>  
Panos Georgiadis <pgeorgiadis@suse.de>  
Pantelis Sampaziotis <psampaz@gmail.com>



Paolo Giarrusso <p.giarrusso@gmail.com>  
Paolo Martini <mrtnpaolo@gmail.com>  
Parker Moore <parkrmoore@gmail.com>  
Parminder Singh <parmsingh101@gmail.com>  
Pascal Dierich <pascal@pascaldierich.com>  
Pascal  
S. de Kloe <pascal@quies.net>  
Pat Moroney <pat@pat.email>  
Patrick Barker <barkerp@vmware.com>  
Patrick Crosby <patrick@stathat.com>  
Patrick Gavlin <pgavlin@gmail.com>  
Patrick Higgins <patrick.allen.higgins@gmail.com>  
Patrick Lee <pattyshack101@gmail.com>  
Patrick Mzard <patrick@mezard.eu>  
Patrick Mylund Nielsen <patrick@patrickmn.com>  
Patrick Pelletier <pp.pelletier@gmail.com>  
Patrick Riley <pfr@google.com>  
Patrick Smith <pat42smith@gmail.com>  
Patrik Lundin <patrik@sigterm.se>  
Paul A Querna <paul.querna@gmail.com>  
Paul Borman <borman@google.com>  
Paul Boyd <boyd.paul2@gmail.com>  
Paul Chang <paulchang@google.com>  
Paul Hammond <paul@paulhammond.org>  
Paul Hankin <paulhankin@google.com>  
Paul Jolly <paul@myitcv.org.uk>  
Paul Lalonde <paul.a.lalonde@gmail.com>  
Paul M Furley <paul@paulfurley.com>  
Paul Marks <pmarks@google.com>  
Paul Meyer <paul.meyer@microsoft.com>  
Paul Nasrat <pnasrat@google.com>  
Paul PISCUC <paul.piscuc@gmail.com>  
Paul Querna <pquerna@apache.org>  
Paul Rosania  
<paul.rosania@gmail.com>  
Paul Ruest <pruest@gmail.com>  
Paul Sbarra <Sbarra.Paul@gmail.com>  
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>  
Paul Tyng <paul@paultyng.net>  
Paul van Brouwershaven <paul@vanbrouwershaven.com>  
Paul Wankadia <junyer@google.com>  
Paulo Casaretto <pcasaretto@gmail.com>  
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>  
Paulo Gomes <paulo.gomes.uk@gmail.com>  
Pavel Paulau <pavel.paulau@gmail.com>  
Pavel Zinovkin <pavel.zinovkin@gmail.com>  
Pavlo Sumkin <ymkins@gmail.com>  
Pawel Knap <pawelknap88@gmail.com>

Pawel Szczur <filemon@google.com>  
Percy Wegmann <ox.to.a.cart@gmail.com>  
Perry Abbott <perry.j.abbott@gmail.com>  
Petar Maymoukov <petarm@gmail.com>  
Peter Armitage <peter.armitage@gmail.com>  
Peter Bourgon <peter@bourgon.org>  
Peter Collingbourne <pcc@google.com>  
Peter Conerly <pconerly@gmail.com>  
Peter Dotchev <dotchev@gmail.com>  
Peter Froehlich <peter.hans.froehlich@gmail.com>  
Peter Gonda <pgonda@google.com>  
Peter Hoyes <pahoyes@gmail.com>  
Peter Kleiweg  
<pkleiweg@xs4all.nl>  
Peter McKenzie <petermck@google.com>  
Peter Moody <pmoody@uber.com>  
Peter Morjan <pmorjan@gmail.com>  
Peter Mundy <go.peter.90@gmail.com>  
Peter Nguyen <peter@mictis.com>  
Pter Surnyi <speter.go1@gmail.com>  
Pter Szab <pts@google.com>  
Pter Szilgyi <peterke@gmail.com>  
Peter Teichman <pteichman@fastly.com>  
Peter Tseng <ptseng@squareup.com>  
Peter Waldschmidt <peter@waldschmidt.com>  
Peter Waller <peter.waller@gmail.com>  
Peter Weinberger <pjw@golang.org>  
Peter Williams <pwil3058@gmail.com>  
Peter Wu <pwu@cloudflare.com>  
Peter Zhang <i@ddatsh.com>  
Petr Jedin <petr.jediny@gmail.com>  
Petrica Voicu <pvoicu@paypal.com>  
Phil Pearl <philip.j.r.pearl@gmail.com>  
Phil Pennock <pdp@golang.org>  
Philip Brgesen <philip.borgesen@gmail.com>  
Philip Brown <phil@bolthole.com>  
Philip Hofer <phofer@umich.edu>  
Philip K. Warren <pkwarren@gmail.com>  
Philip Nelson <me@pnelson.ca>  
Philipp Stephani <phst@google.com>  
Pierre Durand <pierredurand@gmail.com>  
Pierre Prinetti <pierreprinetti@gmail.com>  
Pierre  
Roullon <pierre.roullon@gmail.com>  
Piers <google@hellopiers.pro>  
Pieter Droogendijk <pieter@binky.org.uk>  
Pietro Gagliardi <pietro10@mac.com>  
Piyush Mishra <piyush@codeitout.com>

Plekhanov Maxim <kishtatix@gmail.com>  
Pontus Leitzler <leitzler@gmail.com>  
Prasanna Swaminathan <prasanna@mediamath.com>  
Prashant Agrawal <prashant.a.vjti@gmail.com>  
Prashant Varanasi <prashant@prashantv.com>  
Pravendra Singh <hackpravj@gmail.com>  
Preetam Jinka <pj@preet.am>  
Pure White <wu.purewhite@gmail.com>  
Qais Patankar <qaisjp@gmail.com>  
Qiuxuan Zhu <ilsh1022@gmail.com>  
Quan Tran <qeed.quan@gmail.com>  
Quan Yong Zhai <qyzhai@gmail.com>  
Quentin Perez <qperez@ocs.online.net>  
Quentin Renard <contact@asticode.com>  
Quentin Smith <quentin@golang.org>  
Quinn Slack <sqs@sourcegraph.com>  
Quinten Yearsley <qyearsley@chromium.org>  
Quoc-Viet Nguyen <afelion@gmail.com>  
Radek Sohlich <sohlich@gmail.com>  
Radu Berinde <radu@cockroachlabs.com>  
Rafal Jeczalik <rjeczalik@gmail.com>  
Raghavendra Nagaraj <jamdagni86@gmail.com>  
Rahul  
Chaudhry <rahulchaudhry@chromium.org>  
Raif S. Naffah <go@naffah-raif.name>  
Rajat Goel <rajat.goel2010@gmail.com>  
Rajath Agasthya <rajathagasthya@gmail.com>  
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>  
Ralph Corderoy <ralph@inputplus.co.uk>  
Ramazan AYYILDIZ <rayyildiz@gmail.com>  
Ramesh Dharan <dharan@google.com>  
Raph Levien <raph@google.com>  
Raphael Geronimi <raphael.geronimi@gmail.com>  
Raul Silvera <rsilvera@google.com>  
Ravil Bikbulatov <weeellz12@gmail.com>  
RaviTeja Pothana <ravi.tezu@gmail.com>  
Ray Tung <rtung@thoughtworks.com>  
Raymond Kazlauskas <raima220@gmail.com>  
Rebecca Stambler <rstambler@golang.org>  
Reilly Watson <reillywatson@gmail.com>  
Reinaldo de Souza Jr <juniorz@gmail.com>  
Remi Gillig <remigillig@gmail.com>  
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>  
Rens Rikkerink <Ikkerens@users.noreply.github.com>  
Rhys Hiltner <rhys@justin.tv>  
Ricardo Padilha <ricardospadilha@gmail.com>  
Ricardo Seriani <ricardo.seriani@gmail.com>  
Richard

Barnes <rlb@ipv.sx>  
Richard Crowley <r@rcrowley.org>  
Richard Dingwall <rdingwall@gmail.com>  
Richard Eric Gavaletz <gavaletz@gmail.com>  
Richard Gibson <richard.gibson@gmail.com>  
Richard Miller <miller.research@gmail.com>  
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>  
Rick Arnold <rickarnoldjr@gmail.com>  
Rick Hudson <rlh@golang.org>  
Rick Sayre <whorfin@gmail.com>  
Rijnard van Tonder <rvantonder@gmail.com>  
Riku Voipio <riku.voipio@linaro.org>  
Risto Jaakko Saarelna <rsaarelna@gmail.com>  
Rob Earhart <earhart@google.com>  
Rob Findley <rfindley@google.com>  
Rob Norman <rob.norman@infinitycloud.com>  
Rob Phoenix <rob@robphoenix.com>  
Rob Pike <r@golang.org>  
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>  
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>  
Robert Dinu <r@varp.se>  
Robert Figueiredo <robfig@gmail.com>  
Robert Griesemer <gri@golang.org>  
Robert Hencke <robert.hencke@gmail.com>  
Robert Iannucci <iannucci@google.com>  
Robert Obryk <robryk@gmail.com>  
Robert  
Sesek <rsesek@google.com>  
Robert Snedegar <roberts@google.com>  
Robert Stepanek <robert.stepanek@gmail.com>  
Robert van Gent <rvangent@google.com>  
Robert-Andr Mauchin <zebob.m@gmail.com>  
Roberto Clapis <robclap8@gmail.com>  
Roberto Selbach <roberto@selbach.ca>  
Robin Eklind <r.eklind.87@gmail.com>  
Robin Zhong <robin@robinzhong.co>  
Rodolfo Carvalho <rhcavalho@gmail.com>  
Rodolfo Rodriguez <rodolfobgibson@gmail.com>  
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>  
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>  
Roger Pau Monn <royger@gmail.com>  
Roger Peppe <rogpeppe@gmail.com>  
Rohan Challa <rohan@golang.org>  
Rohan Verma <rohanverma2004@gmail.com>  
Roland Illig <roland.illig@gmx.de>  
Roland Shoemaker <rolandshoemaker@gmail.com>  
Romain Bague <romain.bague@elwinar.com>  
Roman Budnikov <romanyx90@yandex.ru>

Roman Kollr <roman.kollar.0@gmail.com>  
Roman Shchekin <mrqtros@gmail.com>  
Ron Hashimoto <mail@h2so5.net>  
Ron Minnich <rminnich@gmail.com>  
Ross Chater <rdchater@gmail.com>  
Ross Light  
<light@google.com> <rlight2@gmail.com>  
Ross Smith II <ross@smithii.com>  
Rowan Marshall <rowanajmarshall@gmail.com>  
Rowan Worth <sqweek@gmail.com>  
Rudi Kramer <rudi.kramer@gmail.com>  
Rui Ueyama <ruiui@google.com>  
Ruixin Bao <ruixin.bao@ibm.com>  
Ruslan Nigmatullin <elessar@dropbox.com>  
Russ Cox <rsc@golang.org>  
Russell Haering <russellhaering@gmail.com>  
Ryan Bagwell <ryanbagwell@outlook.com>  
Ryan Barrett <ryanb@google.com>  
Ryan Boehning <ryan.boehning@apcera.com>  
Ryan Brown <ribrdb@google.com>  
Ryan Canty <jrcanty@gmail.com>  
Ryan Dahl <ry@tinyclouds.org>  
Ryan Hitchman <hitchmanr@gmail.com>  
Ryan Lower <rpjlower@gmail.com>  
Ryan Roden-Corrent <ryan@rcorre.net>  
Ryan Seys <ryan@ryanseys.com>  
Ryan Slade <ryanslade@gmail.com>  
Ryan Zhang <ryan.zhang@docker.com>  
Ryoichi KATO <ryo1kato@gmail.com>  
Ryuji Iwata <qt.luigi@gmail.com>  
Ryuma Yoshida <ryuma.y1117@gmail.com>  
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>  
S.alar Onur <caglar@10ur.org>  
Sabin Mihai Rapan <sabin.rapan@gmail.com>  
Sad Pencil <qh06@qq.com>  
Sai  
Cheemalapati <saicheems@google.com>  
Sakeven Jiang <jc5930@sina.cn>  
Salmn Aljammz <s@0x65.net>  
Sam Arnold <sarnold64@bloomberg.net>  
Sam Boyer <tech@samboyer.org>  
Sam Ding <samding@ca.ibm.com>  
Sam Hug <samuel.b.hug@gmail.com>  
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>  
Sam Whited <sam@samwhited.com>  
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>  
Sami Commerot <samic@google.com>  
Sami Pnknen <sami.ponkanen@gmail.com>

Samuel Kelemen <SCKelemen@users.noreply.github.com>  
Samuel Tan <samueltan@google.com>  
Samuele Pedroni <pedronis@lucediaruna.net>  
Sander van Harmelen <sander@vanharmelen.nl>  
Sanjay Menakuru <balasanjay@gmail.com>  
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>  
Sarah Adams <shadams@google.com>  
Sardorbek Pulatov <sardorbek.pulatov@outlook.com>  
Sascha Brawer <sascha@brawer.ch>  
Sasha Lionheart <lionhearts@google.com>  
Sasha Sobol <sasha@scaledinference.com>  
Scott Barron <scott.barron@github.com>  
Scott Bell <scott@sctsm.com>  
Scott Crunkleton <crunk1@gmail.com>  
Scott  
Ferguson <scottwferg@gmail.com>  
Scott Lawrence <bytbody@gmail.com>  
Scott Mansfield <smansfield@netflix.com>  
Scott Ragan <ragansa@fb.com>  
Scott Schwartz <scotts@golang.org>  
Scott Van Woudenberg <scottvw@google.com>  
Sean Burford <sburford@google.com>  
Sean Chen <oohcode@gmail.com>  
Sean Chittenden <seanc@joyent.com>  
Sean Christopherson <sean.j.christopherson@intel.com>  
Sean Dolphin <Sean.Dolphin@kpccompass.com>  
Sean Harger <sharger@google.com>  
Sean Liao <seankhliao@gmail.com>  
Sean Rees <sean@erifax.org>  
Sebastiaan van Stijn <github@gone.nl>  
Sebastian Chlopecki <sebsebmc@gmail.com>  
Sebastian Kinne <skinne@google.com>  
Sebastian Schmidt <yath@google.com>  
Sebastien Binet <seb.binet@gmail.com>  
Sbastien Paolacci <sebastien.paolacci@gmail.com>  
Sebastien Williams-Wynn <sebastien@cytora.com>  
Segev Finer <segev208@gmail.com>  
Seiji Takahashi <timaki.st@gmail.com>  
Sergei Lemeshkin <sergeilem@gmail.com>  
Sergei Skorobogatov <skorobo@rambler.ru>  
Sergei Zagurskii <gvozdoder@gmail.com>  
Sergey  
'SnakE' Gromov <snake.scaly@gmail.com>  
Sergey Arseev <sergey.arseev@intel.com>  
Sergey Dobrodey <sergey.dobrodey@synesis.ru>  
Sergey Frolov <sfrolov@google.com>  
Sergey Ivanov <ser1325@gmail.com>  
Sergey Lukjanov <me@slukjanov.name>

Sergey Mishin <sergeymishine@gmail.com>  
Sergey Mudrik <sergey.mudrik@gmail.com>  
Sergey Semin <gray12511@gmail.com>  
Sergey Yanykin <syanykin@ozon.ru>  
Sergio Luis O. B. Correia <sergio@correia.cc>  
Sergiusz Bazanski <bazanski@gmail.com>  
Serhat Giydiren <serhatgydiren@gmail.com>  
Serhii Aheienko <serhii.aheienko@gmail.com>  
Seth Hoenig <seth.a.hoenig@gmail.com>  
Seth Vargo <sethvargo@gmail.com>  
Shahar Kohanim <skohanim@gmail.com>  
Shamil Garatuev <garatuev@gmail.com>  
Shane Hansen <shanemhansen@gmail.com>  
Shaozhen Ding <dsz0111@gmail.com>  
Shaun Dunning <shaun.dunning@uservoice.com>  
Shawn Elliott <selliot@microsoft.com>  
Shawn Ledbetter <sledbetter@google.com>  
Shawn Smith <shawn.p.smith@gmail.com>  
Shawn Walker-Salas <shawn.walker@oracle.com>  
Shenghou Ma <minux@golang.org>  
<minux.ma@gmail.com>  
Shengjing Zhu <zs950618@gmail.com>  
Shengyu Zhang <shengyu.zhang@chaitin.com>  
Shi Han Ng <shihanng@gmail.com>  
Shijie Hao <haormj@gmail.com>  
Shinji Tanaka <shinji.tanaka@gmail.com>  
Shintaro Kaneko <kaneshin0120@gmail.com>  
Shivakumar GN <shivakumar.gn@gmail.com>  
Shivani Singhal <shivani.singhal2804@gmail.com>  
Shivansh Rai <shivansh@freebsd.org>  
Shivashis Padhi <shivashispadhi@gmail.com>  
Shubham Sharma <shubham.sha12@gmail.com>  
Shun Fan <sfan@google.com>  
Silvan Jegen <s.jegen@gmail.com>  
Simarpreet Singh <simar@linux.com>  
Simon Ferquel <simon.ferquel@docker.com>  
Simon Jefford <simon.jefford@gmail.com>  
Simon Rawet <simon@rawet.se>  
Simon Rozman <simon@rozman.si>  
Simon Thulbourn <simon+github@thulbourn.com>  
Simon Whitehead <chemnova@gmail.com>  
Sina Siadat <siadat@gmail.com>  
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>  
Sokolov Yura <funny.falcon@gmail.com>  
Song Gao <song@gao.io>  
Spencer Kocot <spencerkocot@gmail.com>  
Spencer Nelson <s@spenczar.com>  
Spencer Tung <spencertung@google.com>

Spring  
Mc <heresy.mc@gmail.com>  
Srdjan Petrovic <spetrovic@google.com>  
Sridhar Venkatakrishnan <sridhar@laddoo.net>  
Srinidhi Kaushik <shrinidhi.kaushik@gmail.com>  
StalkR <stalkr@stalkr.net>  
Stan Schwertly <stan@schwertly.com>  
Stanislav Afanasev <php.progger@gmail.com>  
Steeve Morin <steeve.morin@gmail.com>  
Stefan Baebler <sbaebler@outbrain.com>  
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>  
Stepan Shabalin <neverliberty@gmail.com>  
Stephan Renatus <srenatus@chef.io>  
Stephan Zuercher <zuercher@gmail.com>  
Stphane Travostino <stephane.travostino@gmail.com>  
Stephen Lewis <stephen@sock.org.uk>  
Stephen Lu <steuhs@users.noreply.github.com>  
Stephen Ma <stephenm@golang.org>  
Stephen McQuay <stephen@mcquay.me>  
Stephen Searles <stephens2424@gmail.com>  
Stephen Weinberg <stephen@q5comm.com>  
Steve Francia <spf@golang.org>  
Steve Gilbert <stevegilbert23@gmail.com>  
Steve LoFurno <slofurno@gmail.com>  
Steve McCoy <mccoyst@gmail.com>  
Steve Mynott <steve.mynott@gmail.com>  
Steve  
Newman <snewman@google.com>  
Steve Phillips <elimistev@gmail.com>  
Steve Streeting <steve@stevestreeting.com>  
Steven Buss <sbuss@google.com>  
Steven Elliot Harris <seharris@gmail.com>  
Steven Erenst <stevenerenst@gmail.com>  
Steven Hartland <steven.hartland@multiplay.co.uk>  
Steven Littlebrant <imgroxx@gmail.com>  
Steven Wilkin <stevenwilkin@gmail.com>  
Stuart Jansen <sjansen@buscaluz.org>  
Sue Spence <virtuallysue@gmail.com>  
Sugu Sougoumarane <ssougou@gmail.com>  
Suharsh Sivakumar <suharshs@google.com>  
Sukrit Handa <sukrit.handa@utoronto.ca>  
Sunny <me@darkowlzz.space>  
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>  
Suyash <dextrous93@gmail.com>  
Suzy Mueller <suzmue@golang.org>  
Sven Almgren <sven@tras.se>  
Sven Blumenstein <svbl@google.com>  
Sven Taute <sven.taute@gmail.com>



Sylvain Zimmer <sylvain@sylvainzimmer.com>  
Syohei YOSHIDA <syohex@gmail.com>  
Szabolcs Nagy <nsz@port70.net>  
Taaavi Kivisik <taaavi.kivisik@gmail.com>  
Tad Fisher <tadfisher@gmail.com>  
Tad Glines <tad.glines@gmail.com>  
Tadas  
Valiukas <tadovas@gmail.com>  
Taesu Pyo <pyotaesu@gmail.com>  
Tai Le <letientai299@gmail.com>  
Taj Khattrra <taj.khattrra@gmail.com>  
Takashi Matsuo <tmatsuo@google.com>  
Takayoshi Nishida <takayoshi.nishida@gmail.com>  
Takeshi YAMANASHI <9.nashi@gmail.com>  
Takuto Ikuta <tikuta@google.com>  
Takuya Ueda <uedatakuya@gmail.com>  
Tal Shprecher <tshprecher@gmail.com>  
Tamir Duberstein <tamird@gmail.com>  
Tao Qingyun <qingyunha@gmail.com>  
Tao Shen <shentaoskyking@gmail.com>  
Tao Wang <twang2218@gmail.com>  
Tarmigan Casebolt <tarmigan@gmail.com>  
Taro Aoki <aizu.s1230022@gmail.com>  
Taru Karttunen <taruti@taruti.net>  
Tatsuhiko Tsujikawa <tatsuhiko.t@gmail.com>  
Tatsuya Kaneko <m.ddotx.f@gmail.com>  
Taufiq Rahman <taufiqrx8@gmail.com>  
Teague Cole <tnc1443@gmail.com>  
Ted Kornish <golang@tedkornish.com>  
Tejasvi Nareddy <tejunareddy@gmail.com>  
Terin Stock <terinjokes@gmail.com>  
Terrel Shumway <gopher@shumway.us>  
Tetsuo Kiso <tetsuokiso9@gmail.com>  
Than McIntosh <thanm@google.com>  
Thanabodee Charoenpiriyakij  
<wingyminus@gmail.com>  
Thanatat Tamtan <acoshift@gmail.com>  
Thiago Avelino <t@avelino.xxx>  
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>  
Thomas Alan Copeland <talan.copeland@gmail.com>  
Thomas Bonfort <thomas.bonfort@gmail.com>  
Thomas Bouldin <inlined@google.com>  
Thomas Bruyelle <thomas.bruyelle@gmail.com>  
Thomas Bushnell, BSG <tbushnell@google.com>  
Thomas de Zeeuw <thomasdezeeuw@gmail.com>  
Thomas Desrosiers <thomasdesr@gmail.com>  
Thomas Habets <habets@google.com>  
Thomas Kappler <tkappler@gmail.com>

Thomas Meson <zllak@hycik.org>  
Thomas Symborski <thomas.symborski@gmail.com>  
Thomas Wanielista <tomwans@gmail.com>  
Thorben Krueger <thorben.krueger@gmail.com>  
Thordur Bjornsson <thorduri@secnorth.net>  
Tiago Queiroz <contato@tiago.eti.br>  
Tianji Wu <the729@gmail.com>  
Tianon Gravi <admwiggin@gmail.com>  
Tilman Dilo <tilman.dilo@gmail.com>  
Tim Cooijmans <timcooijmans@gmail.com>  
Tim Cooper <tim.cooper@layeh.com>  
Tim Ebringer <tim.ebringer@gmail.com>  
Tim Heckman  
<t@heckman.io>  
Tim Henderson <tim.tadh@gmail.com>  
Tim Hockin <thockin@google.com>  
Tim Swast <swast@google.com>  
Tim Wright <tenortim@gmail.com>  
Tim Xu <xiaoxubeii@gmail.com>  
Timo Savola <timo.savola@gmail.com>  
Timo Truyts <alkaloid.btx@gmail.com>  
Timothy Studd <tim@timstudd.com>  
Tipp Moseley <tipp@google.com>  
Tobias Assarsson <tobias.assarsson@gmail.com>  
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>  
Tobias Klauser <tklauser@distanz.ch>  
Toby Burrell <kurin@google.com>  
Todd Kulesza <tkulesza@google.com>  
Todd Neal <todd@tneal.org>  
Todd Wang <toddwang@gmail.com>  
Tom Anthony <git@tomanthony.co.uk>  
Tom Bergan <tombergan@google.com>  
Tom Heng <zhm20070928@gmail.com>  
Tom Lanyon <tomlanyon@google.com>  
Tom Levy <tomlevy93@gmail.com>  
Tom Limoncelli <tal@whatexit.org>  
Tom Linfoord <tomlinfoord@gmail.com>  
Tom Payne <twpayne@gmail.com>  
Tom Szymanski <tgs@google.com>  
Tom Thorogood <me+google@tomthorogood.co.uk>  
Tom Wilkie <tom@weave.works>  
Tomas Dabasinskas <tomas@dabasinskas.net>  
Tommy  
Schaefer <tommy.schaefer@teecom.com>  
Tomohiro Kusumoto <zabio1192@gmail.com>  
Tomoya Ishizaki <zaq1tomo@gmail.com>  
Tonis Tiigi <tonistiigi@gmail.com>  
Tony Reix <tony.reix@bull.net>

Tony Walker <walkert.uk@gmail.com>  
Tooru Takahashi <tooru.takahashi134@gmail.com>  
Tor Andersson <tor.andersson@gmail.com>  
Tormod Erevik Lea <tormodlea@gmail.com>  
Toshihiro Shiino <shiino.toshihiro@gmail.com>  
Toshiki Shima <hayabusa1419@gmail.com>  
Totoro W <tw19881113@gmail.com>  
Travis Bischel <travis.bischel@gmail.com>  
Travis Cline <travis.cline@gmail.com>  
Trevor Strohman <trevor.strohman@gmail.com>  
Trey Lawrence <lawrence.trey@gmail.com>  
Trey Roessig <trey.roessig@gmail.com>  
Trey Tacon <ttacon@gmail.com>  
Tristan Amini <tamini01@ca.ibm.com>  
Tristan Colgate <tcolgate@gmail.com>  
Tristan Oohry <oohry@gmail.com>  
Tristan Rice <rice@fn.lc>  
Troels Thomsen <troels@thomsen.io>  
Trung Nguyen <trung.n.k@gmail.com>  
Tudor Golubenco <tudor.g@gmail.com>  
Tugdual Saunier <tugdual.saunier@gmail.com>  
Tuo Shan <sturbo89@gmail.com>  
<shantuo@google.com>  
Tyler Bui-Palsulich <tpalsulich@google.com>  
Tyler Bunnell <tylerbunnell@gmail.com>  
Tyler Treat <ttreat31@gmail.com>  
Tzu-Jung Lee <roylee17@currant.com>  
Udalov Max <re.udalov@gmail.com>  
Ugorji Nwoke <ugorji@gmail.com>  
Ulf Holm Nielsen <doktor@dyregod.dk>  
Ulrich Kunitz <uli.kunitz@gmail.com>  
Umang Parmar <umangiparmar@gmail.com>  
Uriel Mangado <uriel@berlinblue.org>  
Urvil Patel <patelurvil38@gmail.com>  
Uttam C Pawar <uttam.c.pawar@intel.com>  
Vadim Grek <vadimprog@gmail.com>  
Vadim Vygonets <unixdj@gmail.com>  
Val Polouchkine <vpolouch@justin.tv>  
Valentin Vidic <vvidic@valentin-vidic.from.hr>  
Vega Garcia Luis Alfonso <vegacom@gmail.com>  
Venil Noronha <veniln@vmware.com>  
Veselkov Konstantin <kostozyb@gmail.com>  
Viacheslav Poturaev <vearutop@gmail.com>  
Victor Chudnovsky <vchudnov@google.com>  
Victor Vrantchan <vrancean+github@gmail.com>  
Vignesh Ramachandra <vickyramachandra@gmail.com>  
Vikas Kedia <vikask@google.com>  
Ville Skytt <ville.skytta@iki.fi>

Vincent  
Ambo <tazjin@googlemail.com>  
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>  
Vincent Vanackere <vincent.vanackere@gmail.com>  
Vinu Rajashekhar <vinutheraj@gmail.com>  
Vish Subramanian <vish@google.com>  
Vishvananda Ishaya <vishvananda@gmail.com>  
Visweswara R <r.visweswara@gmail.com>  
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>  
Vitor De Mario <vitordemario@gmail.com>  
Vivek Sekhar <vsekhar@google.com>  
Vlad Krasnov <vlad@cloudflare.com>  
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>  
Vladimir Kovpak <cn007b@gmail.com>  
Vladimir Kuzmin <vkuzmin@uber.com>  
Vladimir Mihailenco <vladimir.webdev@gmail.com>  
Vladimir Nikishenko <vova616@gmail.com>  
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>  
Vladimir Varankin <nek.narqo@gmail.com>  
Vojtech Bocek <vbocek@gmail.com>  
Volker Dobler <dr.volker.dobler@gmail.com>  
Volodymyr Paprotski <vpaprots@ca.ibm.com>  
W. Trevor King <wking@tremily.us>  
Wade Simmons <wade@wades.im>  
Wagner Riffel <wgriffel@gmail.com>  
Walter Poupore <wpoupore@google.com>  
Wander  
Lairson Costa <wcosta@mozilla.com>  
Wang Xuerui <git@xen0n.name>  
Warren Fernandes <warren.f.fernandes@gmail.com>  
Wayne Ashley Berry <wayneashleyberry@gmail.com>  
Wedson Almeida Filho <wedsonaf@google.com>  
Weerasak Chongnguluam <singpor@gmail.com>  
Wi Cngru <crvv.mail@gmail.com>  
Wei Fu <fhfuwei@163.com>  
Wei Guangjing <vcc.163@gmail.com>  
Wei Xiao <wei.xiao@arm.com>  
Wei Xikai <xykwei@gmail.com>  
Weichao Tang <tevic.tt@gmail.com>  
Wembley G. Leach, Jr <wembley.gl@gmail.com>  
Wenlei (Frank) He <wlhe@google.com>  
Wenzel Lowe <lowewenzel@gmail.com>  
Wil Selwood <wselwood@gmail.com>  
Wilfried Teiken <wteiken@google.com>  
Will Beason <willbeason@gmail.com>  
Will Chan <willchan@google.com>  
Will Faught <will.faught@gmail.com>  
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>

Will Norris <willnorris@google.com>  
Will Storey <will@summercat.com>  
Willem van der Schyff <willemvds@gmail.com>  
William Chan <willchan@chromium.org>  
William Chang <mr.williamchang@gmail.com>  
William Josephson <wjosephson@gmail.com>  
William  
Orr <will@worrbase.com> <ay1244@gmail.com>  
William Poussier <william.poussier@gmail.com>  
Wisdom Omuya <deafgoat@gmail.com>  
Wu Yunzhou <yunzhouwu@gmail.com>  
Xi Ruoyao <xry23333@gmail.com>  
Xia Bin <snyh@snyh.org>  
Xiangdong Ji <xiangdong.ji@arm.com>  
Xing Xing <mikespook@gmail.com>  
Xingqiang Bai <bxq2011hust@qq.com>  
Xu Fei <badgangkiller@gmail.com>  
Xudong Zhang <felixmelon@gmail.com>  
Xudong Zheng <7pkvm5aw@slicealias.com>  
Xuyang Kang <xuyangkang@gmail.com>  
Yamagishi Kazutoshi <ykzts@desire.sh>  
Yan Zou <yzou@google.com>  
Yang Tian <linuxty@gmail.com>  
Yann Hodique <yhodique@google.com>  
Yann Kerherv <yann.kerherv@gmail.com>  
Yann Salan <yannsalaun1@gmail.com>  
Yao Zhang <lunaria21@gmail.com>  
Yaron de Leeuw <jarondl@google.com>  
Yasha Bubnov <girokompass@gmail.com>  
Yasser Abdolmaleki <yasser@yasser.ca>  
Yasuharu Goto <matope.ono@gmail.com>  
Yasuhiro Matsumoto <mattn.jp@gmail.com>  
Yasuyuki Oka <yasuyk@gmail.com>  
Yazen Shunnar <yazen.shunnar@gmail.com>  
Yestin Sun <ylih@pdx.edu>  
Yesudeep Mangalapilly  
<yesudeep@google.com>  
Yissakhar Z. Beck <yissakhar.beck@gmail.com>  
Yo-An Lin <yoanlin93@gmail.com>  
Yohei Takeda <yo.tak0812@gmail.com>  
Yongjian Xu <i3dmaster@gmail.com>  
Yorman Arias <cixtords@gmail.com>  
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>  
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>  
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>  
Yu Heng Zhang <annita.zhang@cn.ibm.com>  
Yu Xuan Zhang <zyxsh@cn.ibm.com>  
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>

Yuji Yaginuma <yuuji.yaginuma@gmail.com>  
Yuki OKUSHI <huyuumi.dev@gmail.com>  
Yuki Yugui Sonoda <yugui@google.com>  
Yukihiro Nishinaka <6elpinal@gmail.com>  
Yury Smolsky <yury@smolsky.by>  
Yusuke Kagiwada <block.rxckin.beats@gmail.com>  
Yuusei Kuwana <kuwana@kumama.org>  
Yuval Pavel Zholkover <paulzhol@gmail.com>  
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>  
Zac Bergquist <zbergquist99@gmail.com>  
Zach Bintliff <zbintliff@gmail.com>  
Zach Gershman <zachgersh@gmail.com>  
Zach Jones <zachj1@gmail.com>  
Zachary  
  Amsden <zach@thundertoken.com>  
Zachary Gershman <zgershman@pivotal.io>  
Zak <zrjknill@gmail.com>  
Zakatell Kanda <hi@zkanda.io>  
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>  
Zev Goldstein <zev.goldstein@gmail.com>  
Zheng Dayu <davidzheng23@gmail.com>  
Zheng Xu <zheng.xu@arm.com>  
Zhengyu He <hzy@google.com>  
Zhongpeng Lin <zplin@uber.com>  
Zhongtao Chen <chenzhongtao@126.com>  
Zhongwei Yao <zhongwei.yao@arm.com>  
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# Name <email address>  
Raul Silvera <rsilvera@google.com>

Tipp Moseley <tipp@google.com>  
Hyoun Kyu Cho <netforce@google.com>  
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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	1.2	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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## 1.495 ssl-client 1.35.0-r17

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```
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```

```
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```
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```

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```
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```

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

## 1.498 openssl 1.1.1q-r0

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Description: Bindings to OpenSSL libssl and libcrypto, plus custom SSH pubkey parsers. Supports RSA, DSA and EC curves P-256, P-384 and P-521. Cryptographic signatures can either be created and verified manually or via x509 certificates. AES can be used in cbc, ctr or gcm mode for symmetric encryption; RSA for asymmetric (public key) encryption or EC for Diffie Hellman. High-level envelope functions combine RSA and AES for encrypting

arbitrary sized data. Other utilities include key generators, hash functions (md5, sha1, sha256, etc), base64 encoder, a secure random number generator, and 'bignum' math methods for manually performing crypto calculations on large multibyte integers.

Packaged: 2018-11-15 13:15:06 UTC; jeroen

License: MIT + file LICENSE

Title: Toolkit for Encryption, Signatures and Certificates Based on OpenSSL

URL: <https://github.com/jeroen/openssl#readme>

BugReports: <https://github.com/jeroen/openssl/issues>

SystemRequirements:

OpenSSL >= 1.0.1

RoxygenNote: 6.1.1

VignetteBuilder: knitr

Maintainer: Jeroen Ooms <[jeroen@berkeley.edu](mailto:jeroen@berkeley.edu)>

Type: Package

Repository: CRAN

Version: 1.1

Suggests: testthat, digest, knitr, rmarkdown, jsonlite, jose

NeedsCompilation: yes

Author: Jeroen Ooms [aut, cre] (<<https://orcid.org/0000-0002-4035-0289>>), Oliver Keyes [ctb]

Package: openssl

Authors@R: c(person("Jeroen", "Ooms", role = c("aut", "cre"), email = "jeroen@berkeley.edu", comment = c(ORCID = "0000-0002-4035-0289")), person("Oliver", "Keyes", role = "ctb"))

Date/Publication: 2018-11-15 14:20:03 UTC

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\* /opt/cola/permits/1357762054\_1657278687.5787704/0/openssl-1-1-b1-jar/org/renjin/cran/openssl/DESCRIPTION

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\*/

/\*! Respond.js v1.4.2: min/max-width media query polyfill \* Copyright 2013 Scott Jehl

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jar/org/renjin/cran/openssl/doc/secure\_rng.html

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jar/org/renjin/cran/openssl/doc/crypto\_hashing.html

# 1.499 urllib3 1.26.10

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# 1.500 python-pip 20.0.2-5ubuntu1.6

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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

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Release	Derived 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
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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



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

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

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

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_abseil.h
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.cc
*
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```
/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.h
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```

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/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc
```

```
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf.cc
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```

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/load_reporting.h
*
/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_custom.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_custom.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/fork.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/mock_stream.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/fork.h
* /opt/cola/permits/1362038476_1660896469.918055/0/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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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_certificate_provider.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/main.cc
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/binder_credentials.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/binder_security_policy.h
*
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/complicated.proto
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/authorization_policy_provider.h
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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1.47.0/grpc_root/include/grpcpp/security/tls_certificate_verifier.h
*
/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/grpc_root/include/grpc/event_engine/slice_buffer.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/grpc_root/include/grpc/event_engine/memory_allocator.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/grpc_tools/test/simple.proto
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/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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*
/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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1.47.0/grpc\_root/include/grpcpp/impl/codegen/server\_interceptor.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc++/impl/codegen/string\_ref.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc++/security/auth\_metadata\_processor.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc++/ext/proto\_server\_reflection\_plugin.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc++/support/async\_unary\_call.h

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc++/test/server\_context\_test\_spouse.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc++/impl/codegen/time.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc++/security/server\_credentials.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc++/support/time.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc++/impl/codegen/core\_codegen\_interface.h

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/metadata_map.h
* /opt/cola/permits/1362038476_1660896469.918055/0/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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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/call.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/security/auth_context.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server_builder.h
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```

```
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*/
```

Found in path(s):

```
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_callback.h
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_callback.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
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```

```
/*
*
```

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/create\_channel\_posix.h  
No license file was found, but licenses were detected in source scan.

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](mailto: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 `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 `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 `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 `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



\*  
\*/

Found in path(s):

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/opencensus.h  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/src/compiler/cpp\_plugin.h  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/testing/googletest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/\_proto/google/protobuf/descriptor.proto

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_enum\_lite.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/python/python\_plugin\_unittest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/dynamic\_message.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/message\_differencer\_unittest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_message\_field.cc

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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_parse\_function\_generator.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_string\_field.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_proto3\_arena\_lite.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/repeated\_ptr\_field.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/testdata/books.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unknown\_field\_set.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_helpers.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_primitive\_field.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_string\_field.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/struct.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/stl\_util.h

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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/field\_mask\_util.h  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/\_proto/google/protobuf/compiler/plugin.proto  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/zero\_copy\_stream\_impl\_lite.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/default\_value\_objectwriter.h  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/structured\_objectwriter.h

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 1.47.0/third\_party/protobuf/src/google/protobuf/arena\_impl.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
 1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_lite.proto  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/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  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
 1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/utility.h  
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 1.47.0/third\_party/protobuf/src/google/protobuf/arena.cc  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
 1.47.0/third\_party/protobuf/src/google/protobuf/stubs/once.h  
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 1.47.0/third\_party/protobuf/src/google/protobuf/compiler/importer.h  
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 1.47.0/third\_party/protobuf/src/google/protobuf/map\_type\_handler.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
 1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_enum\_field.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
 1.47.0/third\_party/protobuf/src/google/protobuf/any\_test.cc  
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 /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
 1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_helpers.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-  
 1.47.0/third\_party/protobuf/src/google/protobuf/util/type\_resolver.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third\_party/protobuf/src/google/protobuf/compiler/php/php\_generator.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_file.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/tokenizer.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/test\_util.h  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/map\_field\_test.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/proto3\_arena\_lite\_unittest.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/any\_test.proto  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/wire\_format\_lite.h  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/field\_mask\_util.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_field.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/map\_entry.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_enum.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_empty.proto  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/arena\_test\_util.h  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/service.h  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_doc\_comment.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_generator.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/message.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/object\_location\_tracker.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_message\_field.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/zip\_writer.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/repeated\_field.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/test\_messages\_proto3.proto  
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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/package\_info.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/statusor.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/descriptor\_unittest.cc  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_optimize\_for.proto  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/field\_mask.proto  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/gzip\_stream.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/mock\_code\_generator.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_primitive\_field.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/lite\_unittest.cc  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/reflection\_internal.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/api.proto  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_tctable\_lite.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/int128.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_generator\_factory.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/port\_undef.inc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/time\_util\_test.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/strutil.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_mset.proto

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/repeated\_field.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/testing/googletest.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/arena\_unittest.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/\_proto/google/protobuf/any.proto

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/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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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_lazy\_dependencies\_custom\_option.proto  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/extension\_set.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_enum\_reflection.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_source\_generator\_base.cc  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_message.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_names.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_primitive\_field.cc  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/protostream\_objectsource\_test.cc  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_context.cc  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/wire\_format.cc  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_options.h  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/statusor.cc  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/descriptor.proto  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_message\_field.cc  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/grpc\_tools/\_proto/google/protobuf/wrappers.proto  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/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  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_plugin\_unittest.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/reflection\_tester.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/testdata/field\_mask.proto  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/testdata/proto3.proto  
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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unknown\_field\_set\_unittest.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/ruby/ruby\_generator.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_reflection.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/json\_format.proto  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_field.h  
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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/text\_format.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/message\_differencer.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/wire\_format\_unittest.inc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/php/php\_generator.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/field\_comparator.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/zero\_copy\_stream.h  
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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/extension\_set\_inl.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_file.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/metadata.h  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/descriptor.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_primitive\_field.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_tctable\_decl.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/has\_bits.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/map.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_helpers.h

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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/parse\_context.h  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/bytestream\_unittest.cc  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/protostream\_objectsource.cc  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_enum\_field.h

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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_message\_field.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/map\_field\_lite.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/\_proto/google/protobuf/source\_context.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_message.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/test\_util.inc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/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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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_helpers.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/zero\_copy\_stream\_impl\_lite.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/lite\_arena\_unittest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third\_party/protobuf/src/google/protobuf/implicit\_weak\_message.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/proto3\_lite\_unittest.inc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/testdata/anys.proto

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/descriptor\_database.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/timestamp.proto

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/tokenizer\_unittest.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_field.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_generator.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/common.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/message\_unittest.inc  
No license file was found, but licenses were detected in source scan.

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/impl/codegen/security/auth\_context.h  
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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/impl/client\_unary\_call.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc/support/sync\_posix.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc/support/cpu.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/impl/method\_handler\_impl.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/support/string\_ref.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/impl/codegen/proto\_utils.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/impl/codegen/method\_handler.h

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/impl/codegen/core\_codegen\_interface.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc/impl/codegen/status.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc/slice.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc/support/log\_windows.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc/impl/codegen/log.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/impl/codegen/stub\_options.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc/impl/codegen/sync\_posix.h

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/impl/codegen/create\_auth\_context.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc/impl/codegen/atm.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/impl/grpc\_library.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpc/support/sync\_windows.h



```
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/stub_options.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/alarm.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_generator_helpers.h
*
/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_plugin.cc
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/byte_buffer_reader.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/generator_helpers.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/generic/generic_stub.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm_gcc_atomic.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/objective_c_generator.cc
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync.h
*
/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_generator.cc
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/grpc_security.h
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/service_type.h
* /opt/cola/permits/1362038476_1660896469.918055/0/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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```

```
* /opt/cola/permits/1362038476_1660896469.918055/0/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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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_version.py  
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/_parallel_compile_patch.py  
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_protoc_compiler.pyx  
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/BUILD  
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/protoc.py  
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/__init__.py  
*  
/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/protoc_test.py  
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/setup.py  
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/command.py  
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/BUILD.bazel  
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/protoc_lib_deps.py
```

# 1.502 grpcio 1.47.0

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## 1.503 influxdb 1.9.5

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## 1.504 python3.8 3.8.10-0ubuntu1~20.04.5

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=====

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

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

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



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

All

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

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

\* Create mount directories in fstab

\*  
\* Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>  
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\*  
\* usage: mkmntdirs [fstab]  
\*  
\*/

Found in path(s):

\* /opt/cola/permits/1344947999\_1657894591.0906107/0/alpine-baselayout-3-2-0-r22-tar-gz/alpine-baselayout-tar-gz/mkmntdirs.c  
\* /opt/cola/permits/1344947999\_1657894591.0906107/0/alpine-baselayout-3-2-0-r22-tar-gz/mkmntdirs.c

# 1.506 python3.8-minimal 3.8.10- 0ubuntu1~20.04.5

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

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

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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



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All

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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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From 4ea687132408a7c662706c4a7eb3c61b7773d735 Mon Sep 17 00:00:00 2001

From: "H.J. Lu" <hjl.tools@gmail.com>

Date: Fri, 21 Jan 2022 13:24:00 -0800

Subject: [PATCH] x86: Properly disable -fsplit-stack support on non-glibc targets

Revert x86 changes in

commit c163647ffbc9a20c8feb6e079dbecccfe016c82e

Author: Soren Tempel <soeren@soeren-tempel.net>

Date: Fri Jan 21 19:22:46 2022 +0000

Disable -fsplit-stack support on non-glibc targets

and change ix86\_supports\_split\_stack to return true only on glibc.

PR bootstrap/104170

\* common/config/i386/i386-common.c (ix86\_supports\_split\_stack):

Return true only on glibc.

\* config/i386/gnu-user-common.h (STACK\_CHECK\_STATIC\_BUILTIN):

Revert commit c163647ffbc.

\* config/i386/gnu.h (TARGET\_LIBC\_PROVIDES\_SSP): Likewise.

---

gcc/common/config/i386/i386-common.c | 17 ++++++++-----

gcc/config/i386/gnu-user-common.h | 5 +---

gcc/config/i386/gnu.h

| 5 +----

3 files changed, 14 insertions(+), 13 deletions(-)

diff --git a/gcc/common/config/i386/i386-common.c b/gcc/common/config/i386/i386-common.c

index 96549aa7d7e..a3b5258e828 100644

--- a/gcc/common/config/i386/i386-common.c

+++ b/gcc/common/config/i386/i386-common.c

@@ -1696,16 +1696,21 @@ ix86\_option\_init\_struct (struct gcc\_options \*opts)  
field in the TCB, so they cannot be used together. \*/

static bool

-ix86\_supports\_split\_stack (bool report ATTRIBUTE\_UNUSED,

+ix86\_supports\_split\_stack (bool report,  
struct gcc\_options \*opts ATTRIBUTE\_UNUSED)

{

+ #ifdef TARGET\_THREAD\_SPLIT\_STACK\_OFFSET

+ if (opts->x\_linux\_libc != LIBC\_GLIBC)

+ #endif

+ {

+ if (report)

+ error ("%<-fsplit-stack%> currently only supported on GNU/Linux");

+ return false;

+ }

+

bool ret = true;

- #ifndef TARGET\_THREAD\_SPLIT\_STACK\_OFFSET

- if (report)

- error ("%<-fsplit-stack%> currently only supported on GNU/Linux");

- ret = false;





---

gcc/config/linux.h | 2 ++  
1 file changed, 2 insertions(+)

diff --git a/gcc/config/linux.h b/gcc/config/linux.h  
index 4e1db60fced..7fcf402b416 100644

--- a/gcc/config/linux.h  
+++ b/gcc/config/linux.h

@@ -167,6 +167,8 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see

```
#ifdef NATIVE_SYSTEM_HEADER_DIR
#define INCLUDE_DEFAULTS_MUSL_NATIVE \
+ { NATIVE_SYSTEM_HEADER_DIR "/fortify", 0, 0, 0, 1, 2 }, \
+ { NATIVE_SYSTEM_HEADER_DIR "/fortify", 0, 0, 0, 1, 0 }, \
  { NATIVE_SYSTEM_HEADER_DIR, 0, 0, 0, 1, 2 }, \
  { NATIVE_SYSTEM_HEADER_DIR, 0, 0, 0, 1, 0 },
#else
```

--  
2.35.1

Found in path(s):

\* /opt/cola/permits/1327775260\_1657893467.828745/0/gcc-11-2-1-tar-gz/0021-add-fortify-headers-paths.patch  
No license file was found, but licenses were detected in source scan.

From 52ce9c86c0c89ae45e0d08cc232682e1811aa8f2 Mon Sep 17 00:00:00 2001  
From: Drew DeVault <sir@cmpwn.com>  
Date: Wed, 9 Dec 2020 16:07:26 +0000  
Subject: [PATCH] configure: Add --enable-autolink-libatomic, use in  
LINK\_GCC\_C\_SEQUENCE\_SPEC [PR81358]

This fixes issues with RISC-V.

---

Makefile.in | 1 +  
gcc/config.in | 6 ++++++  
gcc/config/gnu-user.h | 12 ++++++++  
gcc/configure | 34 ++++++++  
gcc/configure.ac | 22 ++++++++  
gcc/doc/install.texi | 8 ++++++  
gcc/doc/tm.texi | 8 ++++++  
gcc/doc/tm.texi.in | 8 ++++++  
gcc/gcc.c | 12 ++++++++  
9 files changed, 103 insertions(+), 8 deletions(-)

diff --git a/Makefile.in b/Makefile.in  
index f97db1ef569..7e577ed3dbb 100644

--- a/Makefile.in  
+++ b/Makefile.in

```

@@ -222,6 +222,7 @@ HOST_EXPORTS = \
RANLIB_FOR_TARGET="$(RANLIB_FOR_TARGET)"; export RANLIB_FOR_TARGET; \
  READELF_FOR_TARGET="$(READELF_FOR_TARGET)"; export READELF_FOR_TARGET; \
  TOPLEVEL_CONFIGURE_ARGUMENTS="$(TOPLEVEL_CONFIGURE_ARGUMENTS)"; export
TOPLEVEL_CONFIGURE_ARGUMENTS; \
+ TARGET_CONFIGDIRS="$(TARGET_CONFIGDIRS)"; export TARGET_CONFIGDIRS; \
  HOST_LIBS="$(STAGE1_LIBS)"; export HOST_LIBS; \
  GMPPLIBS="$(HOST_GMPPLIBS)"; export GMPPLIBS; \
  GMPINC="$(HOST_GMPINC)"; export GMPINC; \
diff --git a/gcc/config.in b/gcc/config.in
index 059c818c895..2a560417440 100644
--- a/gcc/config.in
+++ b/gcc/config.in
@@ -106,6 +106,12 @@
#endif

```

```

+/* Define if libatomic should always be linked. */
+#ifndef USED_FOR_TARGET
+#undef ENABLE_AUTOLINK_LIBATOMIC
+#endif
+
+
+/* Define to 1 to specify that we are using the BID decimal floating point
  format instead of DPD */
+#ifndef USED_FOR_TARGET
diff --git a/gcc/config/gnu-user.h b/gcc/config/gnu-user.h
index 902378e1bad..daf7727a01a 100644
--- a/gcc/config/gnu-user.h
+++ b/gcc/config/gnu-user.h
@@ -109,8 +109,18 @@ see the files COPYING3 and
COPYING.RUNTIME respectively. If not, see
#define LINK_EH_SPEC "%{!static|static-pie:--eh-frame-hdr} "
#endif

```

```

+#if !defined(LINK_LIBATOMIC_SPEC) && defined(ENABLE_AUTOLINK_LIBATOMIC)
+# ifdef LD_AS_NEEDED_OPTION
+# define LINK_LIBATOMIC_SPEC LD_AS_NEEDED_OPTION "-latomic "
LD_NO_AS_NEEDED_OPTION
+# else
+# define LINK_LIBATOMIC_SPEC "-latomic"
+# endif
+#elif !defined(LINK_LIBATOMIC_SPEC)
+# define LINK_LIBATOMIC_SPEC ""
+#endif
+
+
#define GNU_USER_TARGET_LINK_GCC_C_SEQUENCE_SPEC \
- "%{static|static-pie:--start-group} %G % {!nolibc:%L} \

```

```

+ "%{static|static-pie:--start-group} %G % { !noibc:" LINK_LIBATOMIC_SPEC " %L} \
%{static|static-pie:--end-group}% { !static:% { !static-pie:%G } }"

#undef LINK_GCC_C_SEQUENCE_SPEC
diff --git a/gcc/configure b/gcc/configure
index 592e81e40f6..8672298f23f 100755
--- a/gcc/configure
+++ b/gcc/configure
@@ -978,6 +978,7 @@ with_changes_root_url
enable_languages
with_multilib_list
with_multilib_generator
+enable_autolink_libatomic
with_zstd
with_zstd_include
with_zstd_lib
@@ -1707,6 +1708,9 @@ Optional Features:
--disable-shared    don't provide a shared libgcc
--disable-gcov      don't provide libgcov and related host tools
--enable-languages=LIST specify which front-ends to build
+ --enable-autolink-libatomic
+         enable automatic linking of libatomic (ignored if
+         not built)
--disable-rpath     do not hardcode runtime library paths
--enable-sjlj-exceptions
                    arrange to use setjmp/longjmp exception handling
@@ -8070,7 +8074,6 @@ else
fi

-
# Check whether --with-multilib-generator was given.
if test "${with_multilib_generator+set}" = set; then :
  withval=$with_multilib_generator; :
@@ -8078,6 +8081,32 @@ else
  with_multilib_generator=default
fi

+# If libatomic is available, whether it should be linked automatically
+# Check whether --enable-autolink-libatomic was given.
+if test "${enable_autolink_libatomic+set}"
+ = set; then :
+ enableval=$enable_autolink_libatomic;
+ case $enable_autolink_libatomic in
+   yes | no) ;;
+   *) as_fn_error $? "'$enable_autolink_libatomic' is an invalid value for
+---enable-autolink-libatomic. Valid choices are 'yes' and 'no'." "$LINENO" 5 ;;
+ esac

```

```

+
+else
+ enable_autolink_libatomic="
+fi
+
+
+if test x$enable_autolink_libatomic = xyes; then
+ if echo "${TARGET_CONFIGDIRS} " | grep " libatomic " > /dev/null 2>&1 ; then
+
+$as_echo "#define ENABLE_AUTOLINK_LIBATOMIC 1" >>confdefs.h
+
+ else
+ { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: libatomic is not build for this target, --enable-
autolink-libatomic ignored" >&5
+$as_echo "$as_me: WARNING: libatomic is not build for this target, --enable-autolink-libatomic ignored" >&2;}
+ fi
+fi
+

# -----
# Checks for other programs
@@ -19501,7 +19530,7 @@ else
  lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
  lt_status=$lt_dlunknown
  cat > conftest.$ac_ext
  <<_LT_EOF
-#line 19501 "configure"
+#line 19158 "configure"
#include "confdefs.h"

#if HAVE_DLFCN_H
@@ -34068,4 +34097,3 @@ if test -n "$ac_unrecognized_opts" && test "$enable_option_checking" != no; then
$as_echo "$as_me: WARNING: unrecognized options: $ac_unrecognized_opts" >&2;}
fi

-
diff --git a/gcc/configure.ac b/gcc/configure.ac
index 1577529ffb7..e96691f69ba 100644
--- a/gcc/configure.ac
+++ b/gcc/configure.ac
@@ -1149,6 +1149,27 @@ AC_ARG_WITH(multilib-generator,
:
with_multilib_generator=default)

+# If libatomic is available, whether it should be linked automatically
+AC_ARG_ENABLE(autolink-libatomic,
+[AS_HELP_STRING([--enable-autolink-libatomic],
+ [enable automatic linking of libatomic (ignored if not built)]),

```

```

+[
+ case $enable_autolink_libatomic in
+   yes | no) ;;
+   *) AC_MSG_ERROR(['$enable_autolink_libatomic' is an invalid value for
+--enable-autolink-libatomic. Valid choices are 'yes' and 'no'.]) ;;
+ esac
+], [enable_autolink_libatomic="])
+
+if
+  test x$enable_autolink_libatomic = xy; then
+  if echo " ${TARGET_CONFIGDIRS} " | grep " libatomic " > /dev/null 2>&1 ; then
+  AC_DEFINE(ENABLE_AUTOLINK_LIBATOMIC, 1,
+  [Define if libatomic should always be linked.])
+  else
+  AC_MSG_WARN([libatomic is not build for this target, --enable-autolink-libatomic ignored])
+  fi
+fi
+
+ # -----
+ # Checks for other programs
+ # -----
+@@ -7729,4 +7750,3 @@ done
+],
+[subdirs='$subdirs'])
AC_OUTPUT
-
diff --git a/gcc/doc/install.texi b/gcc/doc/install.texi
index 4c38244ae58..4a544e6a4ee 100644
--- a/gcc/doc/install.texi
+++ b/gcc/doc/install.texi
@@ -2213,6 +2213,14 @@ files, but these changed header paths may conflict with some compilation
environments. Enabled by default, and may be disabled using
@option{--disable-canonical-system-headers}.

+@item --enable-autolink-libatomic
+@itemx --disable-autolink-libatomic
+Tell GCC that it should automatically link libatomic; if supported by
+the linker,
+the file is only linked as needed. This flag is ignored
+when libatomic is not built. Note that this configure flag is in particular
+useful when building an offloading-target compiler; as for those, a
+user had to specify @code{-foffload=target=-latomic} otherwise.
+
+@item --with-glibc-version=@var{major}.@var{minor}
Tell GCC that when the GNU C Library (glibc) is used on the target it
will be version @var{major}.@var{minor} or later. Normally this can
diff --git a/gcc/doc/tm.texi b/gcc/doc/tm.texi
index b370bc76b25..acc78273983 100644

```

```
--- a/gcc/doc/tm.texi
+++ b/gcc/doc/tm.texi
@@ -381,7 +381,13 @@ the argument @option{-lgcc} to tell the linker to do the search.
```

```
@defmac LINK_GCC_C_SEQUENCE_SPEC
```

The sequence in which libgcc and libc are specified to the linker.

-By default this is @code{%G %L %G}.

+By default this is @code{%G LINK\_LIBATOMIC\_SPEC %L %G}.

```
+@end defmac
```

```
+
```

```
+@defmac LINK_LIBATOMIC_SPEC
```

+This macro is used in the default @code{LINK\_GCC\_C\_SEQUENCE\_SPEC} to link  
+libatomic.

By default, it is unset unless @code{ENABLE\_AUTOLINK\_LIBATOMIC}

+is set.

```
@end defmac
```

```
@defmac POST_LINK_SPEC
```

```
diff --git a/gcc/doc/tm.texi.in b/gcc/doc/tm.texi.in
```

```
index 2974dae2701..80e003a38ce 100644
```

```
--- a/gcc/doc/tm.texi.in
```

```
+++ b/gcc/doc/tm.texi.in
```

```
@@ -381,7 +381,13 @@ the argument @option{-lgcc} to tell the linker to do the search.
```

```
@defmac LINK_GCC_C_SEQUENCE_SPEC
```

The sequence in which libgcc and libc are specified to the linker.

-By default this is @code{%G %L %G}.

+By default this is @code{%G LINK\_LIBATOMIC\_SPEC %L %G}.

```
+@end defmac
```

```
+
```

```
+@defmac LINK_LIBATOMIC_SPEC
```

+This macro is used in the default @code{LINK\_GCC\_C\_SEQUENCE\_SPEC} to link  
+libatomic. By default, it is unset unless @code{ENABLE\_AUTOLINK\_LIBATOMIC}

+is set.

```
@end defmac
```

```
@defmac POST_LINK_SPEC
```

```
diff --git a/gcc/gcc.c b/gcc/gcc.c
```

```
index 22dbbf85850..90aa576037a 100644
```

```
--- a/gcc/gcc.c
```

```
+++ b/gcc/gcc.c
```

```
@@ -980,13 +980,23 @@ proper position among the other output files. */
```

```
# define ASM_DEBUG_OPTION_SPEC
```

```
""
```

```
#endif
```

```
+#if !defined(LINK_LIBATOMIC_SPEC) && defined(ENABLE_AUTOLINK_LIBATOMIC)
```

```
+# ifdef LD_AS_NEEDED_OPTION
```

```

+# define LINK_LIBATOMIC_SPEC LD_AS_NEEDED_OPTION "-latomic "
LD_NO_AS_NEEDED_OPTION
+# else
+# define LINK_LIBATOMIC_SPEC "-latomic"
+# endif
+#elif !defined(LINK_LIBATOMIC_SPEC)
+# define LINK_LIBATOMIC_SPEC ""
+#endif
+
/* Here is the spec for running the linker, after compiling all files. */

/* This is overridable by the target in case they need to specify the
-lgcc and -lc order specially, yet not require them to override all
of LINK_COMMAND_SPEC. */
#ifndef LINK_GCC_C_SEQUENCE_SPEC
#define LINK_GCC_C_SEQUENCE_SPEC "%G % { !nolibc:%L %G }"
#define LINK_GCC_C_SEQUENCE_SPEC "%G % { !nolibc:" LINK_LIBATOMIC_SPEC " %L %G }"
#endif

#ifdef ENABLE_DEFAULT_SSP
--
2.35.1

```

Found in path(s):

```
* /opt/cola/permits/1327775260_1657893467.828745/0/gcc-11-2-1-tar-gz/0039-configure-Add-enable-autolink-
libatomic-use-in-LINK_.patch
```

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

From d7064ab25a561bb99c3d0b35663154656013aed2 Mon Sep 17 00:00:00 2001

From: Ariadne Conill <ariadne@dereferenced.org>

Date: Fri, 21 Aug 2020 07:06:30 +0000

Subject: [PATCH] ada: libgnarl compatibility for musl

---

```
gcc/ada/libgnarl/s-osinte__linux.ads | 11 -----
```

```
gcc/ada/libgnarl/s-taprop__linux.adb | 53 ++-----
```

2 files changed, 3 insertions(+), 61 deletions(-)

```
diff --git a/gcc/ada/libgnarl/s-osinte__linux.ads b/gcc/ada/libgnarl/s-osinte__linux.ads
```

```
index 2272f83d68d..1d78456544a 100644
```

```
--- a/gcc/ada/libgnarl/s-osinte__linux.ads
```

```
+++ b/gcc/ada/libgnarl/s-osinte__linux.ads
```

```
@@ -401,12 +401,6 @@ package System.OS_Interface is
```

```
    PTHREAD_RWLOCK_PREFER_WRITER_NP          : constant := 1;
```

```
    PTHREAD_RWLOCK_PREFER_WRITER_NONRECURSIVE_NP : constant := 2;
```

```
- function pthread_rwlockattr_setkind_np
```

```
- (attr : access pthread_rwlockattr_t;
```



```

-   pref : int) return int;
-   pragma Import
-
(C, pthread_rwlockattr_setkind_np, "pthread_rwlockattr_setkind_np");
-
function pthread_rwlock_init
  (mutex : access pthread_rwlock_t;
   attr  : access pthread_rwlockattr_t) return int;
@@ -468,11 +462,6 @@ package System.OS_Interface is
  protocol : int) return int;
  pragma Import (C, pthread_mutexattr_setprotocol);

-   function pthread_mutexattr_setprioceiling
-   (attr      : access pthread_mutexattr_t;
-    prioceiling : int) return int;
-   pragma Import (C, pthread_mutexattr_setprioceiling);
-
type struct_sched_param is record
  sched_priority : int; -- scheduling priority
end record;
diff --git a/gcc/ada/libgnarl/s-taprop__linux.adb b/gcc/ada/libgnarl/s-taprop__linux.adb
index 757a6cdfdad..82df94f6a00 100644
--- a/gcc/ada/libgnarl/s-taprop__linux.adb
+++ b/gcc/ada/libgnarl/s-taprop__linux.adb
@@ -198,9 +198,6 @@ package body System.Task_Primitives.Operations is
  pragma Import
    (C, GNAT_pthread_condattr_setup, "__gnat_pthread_condattr_setup");

-   function GNAT_has_cap_sys_nice return C.int;
-   pragma Import
-   (C, GNAT_has_cap_sys_nice, "__gnat_has_cap_sys_nice");
-- We do not have pragma Linker_Options ("-lcap"); here, because this
-- library is not present on many Linux systems. 'libcap' is the Linux
-- "capabilities" library, called by __gnat_has_cap_sys_nice.
@@ -210,38 +207,6 @@ package body System.Task_Primitives.Operations is
-- Convert Ada priority to Linux priority. Priorities are 1 .. 99 on
-- GNU/Linux, so we map 0 .. 98 to 1 .. 99.

-   function Get_Ceiling_Support return Boolean;
-   -- Get the value of the Ceiling_Support constant (see below).
-   -- Note well: If this function or related code is modified, it should be
-   -- tested by hand, because automated testing doesn't exercise it.
-
-   -----
-   -- Get_Ceiling_Support --
-   -----
-
-   function Get_Ceiling_Support return Boolean is

```

```

-   Ceiling_Support : Boolean
:= False;
-   begin
-   if Locking_Policy /= 'C' then
-       return False;
-   end if;
-
-   declare
-       function geteuid return Integer;
-       pragma Import (C, geteuid, "geteuid");
-       Superuser : constant Boolean := geteuid = 0;
-       Has_Cap : constant C.int := GNAT_has_cap_sys_nice;
-       pragma Assert (Has_Cap in 0 | 1);
-       begin
-           Ceiling_Support := Superuser or else Has_Cap = 1;
-       end;
-
-   return Ceiling_Support;
- end Get_Ceiling_Support;
-
- pragma Warnings (Off, "non-preelaborable call not allowed*");
- Ceiling_Support : constant Boolean := Get_Ceiling_Support;
- pragma Warnings (On, "non-preelaborable call not allowed*");
-- True if the locking policy is Ceiling_Locking, and the current process
-- has permission to use this policy. The process has permission if it is
-- running as 'root', or if the capability was set by the setcap command,
@@ -344,7 +309,9 @@ package body System.Task_Primitives.Operations
is
-- Init_Mutex --
-----

+ pragma Warnings (Off, "formal parameter * is not referenced");
function Init_Mutex (L : RTS_Lock_Ptr; Prio : Any_Priority) return C.int is
+ pragma Warnings (On, "formal parameter * is not referenced");
  Mutex_Attr : aliased pthread_mutexattr_t;
  Result, Result_2 : C.int;

@@ -356,16 +323,7 @@ package body System.Task_Primitives.Operations is
  return Result;
end if;

-   if Ceiling_Support then
-       Result := pthread_mutexattr_setprotocol
-           (Mutex_Attr'Access, PTHREAD_PRIO_PROTECT);
-       pragma Assert (Result = 0);
-
-       Result := pthread_mutexattr_setprioceiling
-           (Mutex_Attr'Access, Prio_To_Linux_Prio (Prio));

```

```

-   pragma Assert (Result = 0);
-
-   elsif Locking_Policy = 'T' then
+   if Locking_Policy = 'T' then
      Result := pthread_mutexattr_setprotocol
        (Mutex_Attr'Access, PTHREAD_PRIO_INHERIT);
      pragma Assert
        (Result = 0);
@@ -405,11 +363,6 @@ package body System.Task_Primitives.Operations is
      Result := pthread_rwlockattr_init (RWlock_Attr'Access);
      pragma Assert (Result = 0);

-      Result := pthread_rwlockattr_setkind_np
-        (RWlock_Attr'Access,
-         PTHREAD_RWLOCK_PREFER_WRITER_NONRECURSIVE_NP);
-      pragma Assert (Result = 0);
-
      Result := pthread_rwlock_init (L.RW'Access, RWlock_Attr'Access);

      pragma Assert (Result in 0 | ENOMEM);
--
2.35.1

```

Found in path(s):

```
* /opt/cola/permits/1327775260_1657893467.828745/0/gcc-11-2-1-tar-gz/0031-ada-libgnarl-compatibility-for-musl.patch
```

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

From 8de5d46c530ceca9f4add46d5cae3cd52c38eba3 Mon Sep 17 00:00:00 2001

From: Ariadne Conill <ariadne@dereferenced.org>

Date: Fri, 21 Aug 2020 06:46:56 +0000

Subject: [PATCH] On linux targets pass --as-needed by default to the linker, but always link the sanitizer libraries with --no-as-needed.

---

```

gcc/config/aarch64/aarch64-linux.h | 1 +
gcc/config/alpha/linux-elf.h       | 2 +-
gcc/config/arm/linux-elf.h         | 1 +
gcc/config/gnu-user.h              | 6 +++++
gcc/config/i386/gnu-user.h         | 2 +-
gcc/config/i386/gnu-user64.h       | 1 +
gcc/config/ia64/linux.h            | 2 +-
gcc/config/mips/gnu-user.h         | 1 +
gcc/config/riscv/linux.h           | 1 +
gcc/config/rs6000/linux64.h        | 4 +++
gcc/config/rs6000/sysv4.h          | 2 +-
gcc/config/s390/linux.h            | 2 +-
gcc/config/sparc/linux.h           | 2 +-

```

gcc/gcc.c | 28 ++++++-----

14 files changed, 36 insertions(+), 19 deletions(-)

diff --git a/gcc/config/aarch64/aarch64-linux.h b/gcc/config/aarch64/aarch64-linux.h

index 7f2529a2a1d..b097e1688aa 100644

--- a/gcc/config/aarch64/aarch64-linux.h

+++ b/gcc/config/aarch64/aarch64-linux.h

@@ -35,6 +35,7 @@

#define CPP\_SPEC "%{pthread:-D\_REENTRANT}"

#define LINUX\_TARGET\_LINK\_SPEC "%{h\*} \

+ --as-needed \

%{static:-Bstatic} \

%{shared:-shared} \

%{symbolic:-Bsymbolic} \

diff --git a/gcc/config/alpha/linux-elf.h b/gcc/config/alpha/linux-elf.h

index c1dae8ca2cf..a87dc740171 100644

--- a/gcc/config/alpha/linux-elf.h

+++ b/gcc/config/alpha/linux-elf.h

@@ -37,7 +37,7 @@ along with GCC; see the file COPYING3. If not see

#define ELF\_DYNAMIC\_LINKER GNU\_USER\_DYNAMIC\_LINKER

##define LINK\_SPEC "-m elf64alpha %{G\*} %{relax:-relax} \

##define LINK\_SPEC "-m elf64alpha --as-needed %{G\*} %{relax:-relax} \

%{O\*:-O3} %{!O\*:-O1} \

%{shared:-shared} \

%{!shared: \

diff

--git a/gcc/config/arm/linux-elf.h b/gcc/config/arm/linux-elf.h

index 0c1c4e70b6b..8b581afacdd 100644

--- a/gcc/config/arm/linux-elf.h

+++ b/gcc/config/arm/linux-elf.h

@@ -70,6 +70,7 @@

%{rdynamic:-export-dynamic} \

%{!shared:-dynamic-linker " GNU\_USER\_DYNAMIC\_LINKER "}} \

-X \

+ --as-needed \

%{mbig-endian:-EB} %{mlittle-endian:-EL}" \

SUBTARGET\_EXTRA\_LINK\_SPEC

diff --git a/gcc/config/gnu-user.h b/gcc/config/gnu-user.h

index 5ebbf42a13d..902378e1bad 100644

--- a/gcc/config/gnu-user.h

+++ b/gcc/config/gnu-user.h

@@ -136,7 +136,7 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see

#define LIBASAN\_EARLY\_SPEC "%{!shared:libasan\_preinit%O%s} " \

"%{static-libasan:%{!shared:" \

```

LD_STATIC_OPTION " --whole-archive -lasan --no-whole-archive " \
- LD_DYNAMIC_OPTION " } } % { !static-libasan:-lasan } "
+ LD_DYNAMIC_OPTION " } } % { !static-libasan:% { !fuse-ld=gold:--push-state } --no-as-needed -lasan % { fuse-
ld=gold:--as-needed;--pop-state } } "
#undef LIBHWASAN_EARLY_SPEC
#define LIBHWASAN_EARLY_SPEC "% { static-libhwasan:% { !shared:" \
LD_STATIC_OPTION " --whole-archive -lhwasan --no-whole-archive " \
@@ -145,12 +145,12 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see
#define LIBTSAN_EARLY_SPEC "% { !shared:libtsan_preinit%O%s } " \
"% { static-libtsan:% { !shared:" \
LD_STATIC_OPTION " --whole-archive -ltsan --no-whole-archive " \
- LD_DYNAMIC_OPTION " } } % { !static-libtsan:-ltsan } "
+ LD_DYNAMIC_OPTION " } } % { !static-libtsan:% { !fuse-ld=gold:--push-state } --no-as-needed -ltsan % { fuse-
ld=gold:--as-needed;--pop-state } } "
#undef LIBLSAN_EARLY_SPEC
#define LIBLSAN_EARLY_SPEC "% { !shared:liblsan_preinit%O%s } " \
"% { static-liblsan:% { !shared:" \
LD_STATIC_OPTION " --whole-archive -llsan --no-whole-archive " \
- LD_DYNAMIC_OPTION " } } % { !static-liblsan:-llsan } "
+ LD_DYNAMIC_OPTION " } } % { !static-liblsan:% { !fuse-ld=gold:--push-state } --no-as-needed -llsan % { fuse-
ld=gold:--as-needed;--pop-state } } "
#endif

#undef TARGET_F951_OPTIONS
diff --git a/gcc/config/i386/gnu-user.h b/gcc/config/i386/gnu-user.h
index a23e7ab3eb7..12ac8cb93a9 100644
--- a/gcc/config/i386/gnu-user.h
+++ b/gcc/config/i386/gnu-user.h
@@ -68,7 +68,7 @@ along with GCC; see the file COPYING3. If not see
{ "link_emulation", GNU_USER_LINK_EMULATION },\
{ "dynamic_linker", GNU_USER_DYNAMIC_LINKER }

-#define GNU_USER_TARGET_LINK_SPEC "-m %(link_emulation) % { shared:-shared } \
+#define GNU_USER_TARGET_LINK_SPEC "-m %(link_emulation) --as-needed % { shared:-shared } \
% { !shared: \
% { !static: \
% { !static-pie: \
diff --git a/gcc/config/i386/gnu-user64.h b/gcc/config/i386/gnu-user64.h
index f3e25b1412a..712b0f1c30e 100644
--- a/gcc/config/i386/gnu-user64.h
+++ b/gcc/config/i386/gnu-user64.h
@@ -56,6 +56,7 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see
"% { " SPEC_64 " :-m " GNU_USER_LINK_EMULATION64 " } \
% { " SPEC_32 " :-m " GNU_USER_LINK_EMULATION32
"} \
% { " SPEC_X32 " :-m " GNU_USER_LINK_EMULATIONX32 " } \
+ --as-needed \
% { shared:-shared } \

```

```

%{!shared: \
%{!static: \
diff --git a/gcc/config/ia64/linux.h b/gcc/config/ia64/linux.h
index ac40c3dfd3f..6e19e25c35a 100644
--- a/gcc/config/ia64/linux.h
+++ b/gcc/config/ia64/linux.h
@@ -58,7 +58,7 @@ do { \
#define GLIBC_DYNAMIC_LINKER "/lib/ld-linux-ia64.so.2"

#undef LINK_SPEC
-#define LINK_SPEC "\
+#define LINK_SPEC " --as-needed \
%{shared:-shared} \
%{!shared: \
%{!static: \
diff --git a/gcc/config/mips/gnu-user.h b/gcc/config/mips/gnu-user.h
index a390bcece83..be0ee289367 100644
--- a/gcc/config/mips/gnu-user.h
+++ b/gcc/config/mips/gnu-user.h
@@ -55,6 +55,7 @@ along with GCC; see the file COPYING3. If not see
#undef GNU_USER_TARGET_LINK_SPEC
#define GNU_USER_TARGET_LINK_SPEC "\
%{G*} %{EB} %{EL} %{mips*} %{shared} \
+ -as-needed \
%{!shared: \
%{!static: \
%{rdynamic:-export-dynamic} \
diff --git a/gcc/config/riscv/linux.h
b/gcc/config/riscv/linux.h
index fce5b896e6e..ee29979dd34 100644
--- a/gcc/config/riscv/linux.h
+++ b/gcc/config/riscv/linux.h
@@ -58,6 +58,7 @@ along with GCC; see the file COPYING3. If not see
"%{mabi=ilp32:_ilp32}"

#define LINK_SPEC "\
+-as-needed \
-melf" XLEN_SPEC DEFAULT_ENDIAN_SPEC "riscv" LD_EMUL_SUFFIX " \
%{mno-relax:--no-relax} \
%{mbig-endian:-EB} \
diff --git a/gcc/config/rs6000/linux64.h b/gcc/config/rs6000/linux64.h
index e3f2cd254f6..43499ed29cf 100644
--- a/gcc/config/rs6000/linux64.h
+++ b/gcc/config/rs6000/linux64.h
@@ -374,13 +374,13 @@ extern int dot_symbols;
" -m elf64ppc")
#endif

```

```

-#define LINK_OS_LINUX_SPEC32 LINK_OS_LINUX_EMUL32 " % {!shared: % {!static: \
+#define LINK_OS_LINUX_SPEC32 LINK_OS_LINUX_EMUL32 " --as-needed % {!shared: % {!static: \
% {!static-pie: \
% {rdynamic:-export-dynamic} \
-dynamic-linker " GNU_USER_DYNAMIC_LINKER32 "}} \
%(link_os_extra_spec32)"

-#define LINK_OS_LINUX_SPEC64 LINK_OS_LINUX_EMUL64
" % {!shared: % {!static: \
+#define LINK_OS_LINUX_SPEC64 LINK_OS_LINUX_EMUL64 " --as-needed % {!shared: % {!static: \
% {!static-pie: \
% {rdynamic:-export-dynamic} \
-dynamic-linker " GNU_USER_DYNAMIC_LINKER64 "}} \
diff --git a/gcc/config/rs6000/sysv4.h b/gcc/config/rs6000/sysv4.h
index 510abe169c5..3c1f3a8ec5d 100644
--- a/gcc/config/rs6000/sysv4.h
+++ b/gcc/config/rs6000/sysv4.h
@@ -789,7 +789,7 @@ GNU_USER_TARGET_CC1_SPEC
#define GNU_USER_DYNAMIC_LINKER GLIBC_DYNAMIC_LINKER
#endif

-#define LINK_OS_LINUX_SPEC "-m elf32ppclinux % {!shared: % {!static: \
+#define LINK_OS_LINUX_SPEC "-m elf32ppclinux --as-needed % {!shared: % {!static: \
% {rdynamic:-export-dynamic} \
-dynamic-linker " GNU_USER_DYNAMIC_LINKER "}"

diff --git a/gcc/config/s390/linux.h b/gcc/config/s390/linux.h
index daa48fdcf2b..2fcfc5d770f 100644
--- a/gcc/config/s390/linux.h
+++ b/gcc/config/s390/linux.h
@@ -82,7 +82,7 @@ along with GCC; see the file COPYING3. If not see

#undef LINK_SPEC
#define
LINK_SPEC \
- "% {m31:-m elf_s390}% {m64:-m elf64_s390} \
+ "% {m31:-m elf_s390}% {m64:-m elf64_s390} --as-needed \
% {shared:-shared} \
% {!shared: \
% {static:-static} \
diff --git a/gcc/config/sparc/linux.h b/gcc/config/sparc/linux.h
index 2550d7ee8f0..7596d0b2757 100644
--- a/gcc/config/sparc/linux.h
+++ b/gcc/config/sparc/linux.h
@@ -81,7 +81,7 @@ extern const char *host_detect_local_cpu (int argc, const char **argv);
#define GLIBC_DYNAMIC_LINKER "/lib/ld-linux.so.2"

#undef LINK_SPEC

```

```

-#define LINK_SPEC "-m elf32_sparc %{shared:-shared} \
+#define LINK_SPEC "-m elf32_sparc --as-needed %{shared:-shared} \
%{!mno-relax:%{!r:-relax}} \
%{!shared: \
%{!static: \
diff --git a/gcc/gcc.c b/gcc/gcc.c
index faf9ce76b3d..1ad5da6d769 100644
--- a/gcc/gcc.c
+++ b/gcc/gcc.c
@@ -737,8 +737,11 @@ proper position among the other output files. */
#ifdef LIBASAN_EARLY_SPEC
#define LIBASAN_SPEC STATIC_LIBASAN_LIBS
#elif defined(HAVE_LD_STATIC_DYNAMIC)
-#define LIBASAN_SPEC
"%{static-libasan:" LD_STATIC_OPTION \
-   " } -lasan %{static-libasan:" LD_DYNAMIC_OPTION "}" \
+#define LIBASAN_SPEC "%{static-libasan:" LD_STATIC_OPTION "}" \
+   "%{!static-libasan:%{!fuse-ld=gold:--push-state }--no-as-needed}" \
+   "-lasan " \
+   "%{static-libasan:" LD_DYNAMIC_OPTION "}" \
+   "%{!static-libasan:%{fuse-ld=gold:--as-needed;:--pop-state }}" \
    STATIC_LIBASAN_LIBS
#else
#define LIBASAN_SPEC "-lasan" STATIC_LIBASAN_LIBS
@@ -773,8 +776,11 @@ proper position among the other output files. */
#ifdef LIBTSAN_EARLY_SPEC
#define LIBTSAN_SPEC STATIC_LIBTSAN_LIBS
#elif defined(HAVE_LD_STATIC_DYNAMIC)
-#define LIBTSAN_SPEC "%{static-libtsan:" LD_STATIC_OPTION \
-   " } -ltsan %{static-libtsan:" LD_DYNAMIC_OPTION "}" \
+#define LIBTSAN_SPEC "%{static-libtsan:" LD_STATIC_OPTION "}" \
+   "%{!static-libtsan:%{!fuse-ld=gold:--push-state }--no-as-needed}" \
+   "-ltsan " \
+   "%{static-libtsan:" LD_DYNAMIC_OPTION "}" \
+
+   "%{!static-libtsan:%{fuse-ld=gold:--as-needed;:--pop-state }}" \
    STATIC_LIBTSAN_LIBS
#else
#define LIBTSAN_SPEC "-ltsan" STATIC_LIBTSAN_LIBS
@@ -809,8 +812,11 @@ proper position among the other output files. */
#ifdef LIBLSAN_EARLY_SPEC
#define LIBLSAN_SPEC STATIC_LIBLSAN_LIBS
#elif defined(HAVE_LD_STATIC_DYNAMIC)
-#define LIBLSAN_SPEC "%{static-liblsan:" LD_STATIC_OPTION \
-   " } -llsan %{static-liblsan:" LD_DYNAMIC_OPTION "}" \
+#define LIBLSAN_SPEC "%{static-liblsan:" LD_STATIC_OPTION "}" \
+   "%{!static-liblsan:%{!fuse-ld=gold:--push-state }--no-as-needed}" \
+   "-llsan " \

```



```

+   "% {static-liblsan:" LD_DYNAMIC_OPTION "}" \
+   "% {!static-liblsan:% {fuse-ld=gold:--as-needed;--pop-state }}" \
    STATIC_LIBLSAN_LIBS
#else
#define LIBLSAN_SPEC "-lsan" STATIC_LIBLSAN_LIBS
@@ -807,8 +816,11 @@ proper position among the other output files. */
#define STATIC_LIBUBSAN_LIBS \
    "% {static-libubsan|static:%:include(libsanitizer.spec)(link_libubsan)}"
#ifdef HAVE_LD_STATIC_DYNAMIC
-#define LIBUBSAN_SPEC "% {static-libubsan:" LD_STATIC_OPTION \
-   " } -lubsan % {static-libubsan:" LD_DYNAMIC_OPTION "}" \
+#define LIBUBSAN_SPEC "% {static-libubsan:" LD_STATIC_OPTION "}" \
+   "% {!static-libubsan:% {!fuse-ld=gold:--push-state }--no-as-needed}" \
+   "-lubsan " \
+   "% {static-libubsan:" LD_DYNAMIC_OPTION "}" \
+   "% {!static-libubsan:% {fuse-ld=gold:--as-needed;--pop-state }}" \
    STATIC_LIBUBSAN_LIBS
#else
#define LIBUBSAN_SPEC "-lubsan" STATIC_LIBUBSAN_LIBS
--
2.35.1

```

Found in path(s):

\* /opt/cola/permits/1327775260\_1657893467.828745/0/gcc-11-2-1-tar-gz/0005-On-linux-targets-pass-as-needed-by-default-to-the-li.patch

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

From 72f32e3383129ad139df76d9a063fac9b03079b1 Mon Sep 17 00:00:00 2001

From: Alex McGrath <amk@amk.ie>

Date: Wed, 13 Oct 2021 23:24:27 +0100

Subject: [PATCH] Fix attempt to use poisoned calloc error in libgccjit

This moves usages of pthread.h to above any usage of system.h as it included #pragma GCC poison calloc

---

gcc/jit/jit-playback.c | 4 +++

gcc/jit/jit-recording.c | 4 +++

gcc/jit/libgccjit.c | 3 ++

3 files changed, 6 insertions(+), 5 deletions(-)

diff --git a/gcc/jit/jit-playback.c b/gcc/jit/jit-playback.c

index cee9daa8220..a5600084933 100644

--- a/gcc/jit/jit-playback.c

+++ b/gcc/jit/jit-playback.c

@@ -18,6 +18,8 @@ You should have received a copy of the GNU General Public License along with GCC; see the file COPYING3. If not see

<<http://www.gnu.org/licenses/>>. \*/

```

+#include <pthread.h>
+
#include "config.h"
#include "system.h"
#include "coretypes.h"
@@ -41,8 +43,6 @@ along with GCC; see
the file COPYING3. If not see
#include "diagnostic.h"
#include "stmt.h"

-#include <pthread.h>
-
#include "jit-playback.h"
#include "jit-result.h"
#include "jit-builtins.h"
diff --git a/gcc/jit/jit-recording.c b/gcc/jit/jit-recording.c
index 117ff70114c..d2634a546b1 100644
--- a/gcc/jit/jit-recording.c
+++ b/gcc/jit/jit-recording.c
@@ -18,6 +18,8 @@ You should have received a copy of the GNU General Public License
along with GCC; see the file COPYING3. If not see
<http://www.gnu.org/licenses/>. */

+#include <pthread.h>
+
#include "config.h"
#include "system.h"
#include "coretypes.h"
@@ -25,8 +27,6 @@ along with GCC; see the file COPYING3. If not see
#include "pretty-print.h"
#include "toplev.h"

-#include <pthread.h>
-
#include "jit-builtins.h"
#include "jit-recording.h"
#include "jit-playback.h"
diff --git a/gcc/jit/libgccjit.c b/gcc/jit/libgccjit.c
index 0cc650f9810..2f44481eeb0 100644
--- a/gcc/jit/libgccjit.c
+++ b/gcc/jit/libgccjit.c
@@ -18,13 +18,14 @@ You
should have received a copy of the GNU General Public License
along with GCC; see the file COPYING3. If not see
<http://www.gnu.org/licenses/>. */

+#include <pthread.h>
+

```

```
#include "config.h"
#include "system.h"
#include "coretypes.h"
#include "timevar.h"
#include "typed-splay-tree.h"
#include "cppbuiltin.h"
-#include <pthread.h>
```

```
#include "libgccjit.h"
#include "jit-recording.h"
```

--

2.35.1

Found in path(s):

\* /opt/cola/permits/1327775260\_1657893467.828745/0/gcc-11-2-1-tar-gz/0042-Fix-attempt-to-use-poisoned-calloc-error-in-libgccji.patch

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

From 2c6bf28619c9b3bf713f7f5319c5d750a6c297ae Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?S=C3=B6ren=20Tempel?= <soeren@soeren-tempel.net>

Date: Fri, 21 Jan 2022 19:22:46 +0000

Subject: [PATCH] Disable -fsplit-stack support on non-glibc targets

MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

The -fsplit-stack option requires the pthread\_t TCB definition in the libc to provide certain struct fields at specific hardcoded offsets. As far as I know, only glibc provides these fields at the required offsets. Most notably, musl libc does not have these fields. However, since gcc accesses the fields using a fixed offset, this does not cause a compile-time error, but instead results in a silent memory corruption at run-time with musl libc. For example, on s390x libgcc's `__stack_split_initialize` CTOR will overwrite the cancel field in the pthread\_t TCB on musl.

The -fsplit-stack option

is used within the gcc code base itself by

gcc-go (if available). On musl-based systems with split-stack support (i.e. s390x or x86) this causes Go programs compiled with gcc-go to misbehave at run-time.

This patch fixes gcc-go on musl by disabling -fsplit-stack in gcc itself since it is not supported on non-glibc targets anyhow. This is achieved by checking if gcc targets a glibc-based system. This check has been added for x86 and s390x, the rs6000 config already checks for `TARGET_GLIBC_MAJOR`. Other architectures do not have split-stack support. With this patch applied, the gcc-go configure script will

detect that -fsplit-stack support is not available and will not use it.

See <https://www.openwall.com/lists/musl/2012/10/16/12>

This patch was written under the assumption that glibc is the only libc implementation which supports the required fields at the required offsets in the pthread\_t TCB. The patch has been tested on Alpine Linux Edge on the s390x and x86 architectures by bootstrapping Google's Go implementation with gcc-go.

Signed-off-by: Sören Tempel <soeren@soeren-tempel.net>

gcc/ChangeLog:

```
* common/config/s390/s390-common.c (s390_supports_split_stack):
Only support split-stack on glibc targets.
* config/i386/gnu-user-common.h (STACK_CHECK_STATIC_BUILTIN): Ditto.
* config/i386/gnu.h (defined): Ditto.
```

---

```
gcc/common/config/s390/s390-common.c | 14 ++++++++----
gcc/config/i386/gnu-user-common.h   | 5 +++--
gcc/config/i386/gnu.h                | 5 ++++-
3 files changed, 17 insertions(+), 7 deletions(-)
```

```
diff --git a/gcc/common/config/s390/s390-common.c b/gcc/common/config/s390/s390-common.c
index b6bc8501742..8c1e590322d 100644
```

```
--- a/gcc/common/config/s390/s390-common.c
+++ b/gcc/common/config/s390/s390-common.c
@@ -116,13 +116,19 @@ s390_handle_option (struct gcc_options *opts ATTRIBUTE_UNUSED,
```

```
/* -fsplit-stack uses a field in the TCB, available with glibc-2.23.
```

```
   We don't verify it, since earlier versions just have padding at
-   its place,
   which works just as well. */
+   its place, which works just as well. For other libc implementations
+   we disable the feature entirely to avoid corrupting the TCB. */
```

```
static bool
-s390_supports_split_stack (bool report ATTRIBUTE_UNUSED,
- struct gcc_options *opts ATTRIBUTE_UNUSED)
+s390_supports_split_stack (bool report,
+ struct gcc_options *opts)
{
- return true;
+ if (opts->x_linux_libc == LIBC_GLIBC)
+ return true;
+ }
```

```

+ if (report)
+ error ("%<-fsplit-stack%> currently only supported on GNU/Linux");
+ return false;
}

#undef TARGET_DEFAULT_TARGET_FLAGS
diff --git a/gcc/config/i386/gnu-user-common.h b/gcc/config/i386/gnu-user-common.h
index 00226f5a455..6e13315b5a3 100644
--- a/gcc/config/i386/gnu-user-common.h
+++ b/gcc/config/i386/gnu-user-common.h
@@ -66,7 +66,8 @@ along with GCC; see the file COPYING3. If not see
#define STACK_CHECK_STATIC_BUILTIN 1

/* We only build the -fsplit-stack support in libgcc if the
- assembler has full support
for the CFI directives. */
#ifndef HAVE_GAS_CFI_PERSONALITY_DIRECTIVE
+ assembler has full support for the CFI directives and
+ targets glibc. */
+#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE && OPTION_GLIBC
#define TARGET_CAN_SPLIT_STACK
#endif
diff --git a/gcc/config/i386/gnu.h b/gcc/config/i386/gnu.h
index 25fbc07f58c..afd3e8e8841 100644
--- a/gcc/config/i386/gnu.h
+++ b/gcc/config/i386/gnu.h
@@ -35,7 +35,10 @@ along with GCC. If not, see <http://www.gnu.org/licenses/>.
    crtbegin.o%s % {static:crtbeginT.o%s;shared|pie:crtbeginS.o%s;;crtbegin.o%s}"
#endif

#ifndef TARGET_LIBC_PROVIDES_SSP
+/* -fsplit-stack uses a field in the TCB at a fixed offset. This
+ field is only available for glibc. Disable -fsplit-stack for
+ other libc implementations to avoid silent TCB corruptions. */
+#if defined (TARGET_LIBC_PROVIDES_SSP) && OPTION_GLIBC

/* i386 glibc provides __stack_chk_guard in %gs:0x14. */
#define TARGET_THREAD_SSP_OFFSET    0x14
--
2.35.1

```

Found in path(s):

\* /opt/cola/permits/1327775260\_1657893467.828745/0/gcc-11-2-1-tar-gz/0046-Disable-fsplit-stack-support-on-non-glibc-targets.patch

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

From 586e82425a024d85d1bd9952ca51d8a671aa9b5d Mon Sep 17 00:00:00 2001

From: Ariadne Conill <ariadne@dereferenced.org>

Date: Fri, 21 Aug 2020 06:57:51 +0000  
Subject: [PATCH] dlang: update zlib binding

---

libphobos/src/std/zlib.d | 266 ++++++-----  
1 file changed, 196 insertions(+), 70 deletions(-)

diff --git a/libphobos/src/std/zlib.d b/libphobos/src/std/zlib.d

index e6cce240fd5..bd2fe37ebec 100644

--- a/libphobos/src/std/zlib.d

+++ b/libphobos/src/std/zlib.d

@@ -1,7 +1,7 @@

// Written in the D programming language.

/\*\*

- \* Compress/decompress data using the \$(HTTP www.\_zlib.net, \_zlib library).

+ \* Compress/decompress data using the \$(HTTP www.zlib.net, zlib library).

\*

\* Examples:

\*

@@ -43,12 +43,12 @@

\* References:

\* \$(HTTP en.wikipedia.org/wiki/Zlib, Wikipedia)

\*

- \* Copyright: Copyright Digital Mars 2000 - 2011.

+ \* Copyright: Copyright The D Language Foundation 2000

- 2011.

\* License: \$(HTTP www.boost.org/LICENSE\_1\_0.txt, Boost License 1.0).

\* Authors: \$(HTTP digitalmars.com, Walter Bright)

- \* Source: \$(PHOBOSSRC std/\_zlib.d)

+ \* Source: \$(PHOBOSSRC std/zlib.d)

\*/

/\* Copyright Digital Mars 2000 - 2011.

+/\* Copyright The D Language Foundation 2000 - 2011.

\* Distributed under the Boost Software License, Version 1.0.

\* (See accompanying file LICENSE\_1\_0.txt or copy at

\* [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

@@ -75,9 +75,9 @@ enum

class ZlibException : Exception

{

- this(int errnum)

- { string msg;

-

+ private static string getmsg(int errnum) nothrow @nogc pure @safe

+ {

+ string msg;

switch (errnum)

```

    {
        case Z_STREAM_END:    msg = "stream end"; break;
@@ -90,7 +90,12 @@ class ZlibException : Exception
        case Z_VERSION_ERROR: msg = "version error"; break;
        default:             msg = "unknown error"; break;

    }
-    super(msg);
+    return msg;
+ }
+
+ this(int errnum)
+ {
+     super(getmsg(errnum));
+ }
}

@@ -104,7 +109,7 @@ class ZlibException : Exception
*   buf = buffer containing input data
*
* Returns:
- *   A $(D uint) checksum for the provided input data and starting checksum
+ *   A `uint` checksum for the provided input data and starting checksum
*
* See_Also:
*   $(LINK http://en.wikipedia.org/wiki/Adler-32)
@@ -147,7 +152,7 @@ uint Adler32(uint Adler, const(void[]) buf)
*   buf = buffer containing input data
*
* Returns:
- *   A $(D uint) checksum for the provided input data and starting checksum
+ *   A `uint` checksum for the provided input data and starting checksum
*
* See_Also:
*   $(LINK http://en.wikipedia.org/wiki/Cyclic_redundancy_check)
@@ -191,13 +196,14 @@ uint Crc32(uint Crc, const(void[]) buf)
ubyte[] Compress(const(void[]) srcbuf, int level)
in
{
-    assert(-1 <= level && level <= 9);
+
+    assert(-1 <= level && level <= 9, "Compression level needs to be within [-1, 9].");
}
-body
+do
{
    import core.memory : GC;
+    import std.array : uninitializedArray;

```

```

    auto destlen = srcbuf.length + ((srcbuf.length + 1023) / 1024) + 12;
-   auto destbuf = new ubyte[destlen];
+   auto destbuf = uninitializedArray!(ubyte[])(destlen);
    auto err = etc.c.zlib.compress2(destbuf.ptr, &destlen, cast(ubyte *) srcbuf.ptr, srcbuf.length, level);
    if (err)
    {
@@ -276,7 +282,7 @@ void[] uncompress(const(void)[] srcbuf, size_t destlen = 0u, int winbits = 15)
        throw new ZlibException(err);
    }
}
-   assert(0);
+   assert(0, "Unreachable code");
}

```

```

@system unittest
@@ -370,9 +376,9 @@ class Compress
    this(int level, HeaderFormat header = HeaderFormat.deflate)
    in
    {
-   assert(1 <= level && level <= 9);
+   assert(1 <= level && level <= 9, "Legal compression level are in [1, 9].");
    }
-   body
+   do
    {

```

```

        this.level = level;
        this.gzip = header == HeaderFormat.gzip;
@@ -406,6 +412,7 @@ class Compress
    const(void)[] compress(const(void)[] buf)
    {
        import core.memory : GC;
+       import std.array : uninitializedArray;
        int err;
        ubyte[] destbuf;

```

```

@@ -420,7 +427,7 @@ class Compress
        inited = 1;
    }

-   destbuf = new ubyte[zs.avail_in + buf.length];
+   destbuf = uninitializedArray!(ubyte[])(zs.avail_in + buf.length);
    zs.next_out = destbuf.ptr;
    zs.avail_out = to!uint(destbuf.length);

```

```

@@ -461,9 +468,10 @@ class Compress
    void[] flush(int mode = Z_FINISH)
    in

```



```

    {
-   assert(mode == Z_FINISH || mode == Z_SYNC_FLUSH || mode == Z_FULL_FLUSH);
+   assert(mode == Z_FINISH || mode == Z_SYNC_FLUSH || mode == Z_FULL_FLUSH,
+       "Mode must be either Z_FINISH, Z_SYNC_FLUSH or Z_FULL_FLUSH.");
    }
-   body
+   do
    {
        import core.memory : GC;
        ubyte[] destbuf;
@@
-523,6 +531,7 @@ class UnCompress
    z_stream zs;
    int initd;
    int done;
+   bool inputEnded;
    size_t destbufsize;

    HeaderFormat format;
@@ -571,16 +580,16 @@ class UnCompress
    const(void)[] uncompress(const(void)[] buf)
    in
    {
-   assert(!done);
+   assert(!done, "Buffer has been flushed.");
    }
-   body
+   do
    {
+   if (inputEnded || !buf.length)
+       return null;
+
        import core.memory : GC;
+   import std.array : uninitializedArray;
        int err;
-   ubyte[] destbuf;
-
-   if (buf.length == 0)
-       return null;

        if (!initd)
        {
@@ -598,26 +607,152 @@ class UnCompress

        if (!destbufsize)
            destbufsize = to!uint(buf.length) * 2;
-   destbuf = new ubyte[zs.avail_in * 2 + destbufsize];
-   zs.next_out = destbuf.ptr;

```

```

-   zs.avail_out = to!uint(destbuf.length);
-
-   if (zs.avail_in)
-       buf = zs.next_in[0 .. zs.avail_in]
~ cast(ubyte[]) buf;
+   auto destbuf = uninitializedArray!(ubyte[])(destbufsize);
+   size_t destFill;

    zs.next_in = cast(ubyte*) buf.ptr;
    zs.avail_in = to!uint(buf.length);

-   err = inflate(&zs, Z_NO_FLUSH);
-   if (err != Z_STREAM_END && err != Z_OK)
+   while (true)
    {
-       GC.free(destbuf.ptr);
-       error(err);
+       auto oldAvailIn = zs.avail_in;
+
+       zs.next_out = destbuf[destFill .. $].ptr;
+       zs.avail_out = to!uint(destbuf.length - destFill);
+
+       err = inflate(&zs, Z_NO_FLUSH);
+       if (err == Z_STREAM_END)
+       {
+           inputEnded = true;
+           break;
+       }
+       else if (err != Z_OK)
+       {
+           GC.free(destbuf.ptr);
+           error(err);
+       }
+       else if (!zs.avail_in)
+           break;
+
+       /*
+           According to the zlib manual inflate()
stops when either there's
+           no more data to uncompress or the output buffer is full
+           So at this point, the output buffer is too full
+       */
+
+       destFill = destbuf.length;
+
+       if (destbuf.capacity)
+       {
+           if (destbuf.length < destbuf.capacity)

```

```

+         destbuf.length = destbuf.capacity;
+     else
+     {
+         auto newLength = GC.extend(destbuf.ptr, destbufsize, destbufsize);
+
+         if (newLength && destbuf.length < destbuf.capacity)
+             destbuf.length = destbuf.capacity;
+         else
+             destbuf.length += destbufsize;
+     }
+ }
+ else
+     destbuf.length += destbufsize;
+ }
+
+     destbuf.length = destbuf.length - zs.avail_out;
+     return destbuf;
+ }

+ // Test for issues 3191 and 9505
+ @system unittest
+ {
+     import std.algorithm.comparison;
+     import std.array;
+     import std.file;
+     import std.zlib;
+
+     // Data that can be easily compressed
+     ubyte[1024] originalData;
+
+     // This should yield a compression ratio of at least 1/2
+     auto compressedData = compress(originalData, 9);
+     assert(compressedData.length < originalData.length / 2,
+         "The compression ratio is too low to accurately test this situation");
+
+     auto chunkSize = compressedData.length / 4;
+     assert(chunkSize < compressedData.length,
+         "The length of the compressed data is too small to accurately test this situation");
+
+     auto decompressor = new UnCompress();
+     ubyte[originalData.length] uncompressedData;
+     ubyte[] reusedBuf;
+     int progress;
+
+     reusedBuf.length = chunkSize;
+
+     for (int i = 0; i < compressedData.length; i += chunkSize)

```

```

+   {
+       auto len =
min(chunkSize, compressedData.length - i);
+       // simulate reading from a stream in small chunks
+       reusedBuf[0 .. len] = compressedData[i .. i + len];
+
+       // decompress using same input buffer
+       auto chunk = decompressor.uncompress(reusedBuf);
+       assert(progress + chunk.length <= originalData.length,
+           "The uncompressed result is bigger than the original data");
+
+       uncompressedData[progress .. progress + chunk.length] = cast(const ubyte[]) chunk[];
+       progress += chunk.length;
+   }
+
+   auto chunk = decompressor.flush();
+   assert(progress + chunk.length <= originalData.length,
+       "The uncompressed result is bigger than the original data");
+
+   uncompressedData[progress .. progress + chunk.length] = cast(const ubyte[]) chunk[];
+   progress += chunk.length;
+
+   assert(progress == originalData.length,
+       "The uncompressed and the
original data sizes differ");
+   assert(originalData[] == uncompressedData[],
+       "The uncompressed and the original data differ");
+ }
+
+ @system unittest
+ {
+   ubyte[1024] invalidData;
+   auto decompressor = new UnCompress();
+
+   try
+   {
+       auto uncompressedData = decompressor.uncompress(invalidData);
+   }
+   catch (ZlibException e)
+   {
+       assert(e.msg == "data error");
+       return;
+   }
+
+   assert(false, "Corrupted data didn't result in an error");
+ }
+
+ @system unittest

```

```

+ {
+   ubyte[2014] originalData = void;
+   auto compressedData = compress(originalData, 9);
+
+   auto decompressor = new UnCompress();
+   auto uncompressedData = decompressor.uncompress(compressedData ~ cast(ubyte[]) "whatever");
+
+   assert(originalData.length == uncompressedData.length,
+         "The uncompressed and the original data sizes differ");
+
+   assert(originalData[] == uncompressedData[],
+         "The uncompressed and the original data differ");
+   assert(!decompressor.uncompress("whatever").length,
+         "Compression continued after the end");
+ }
+
+ /**
+  * Decompress and return any remaining data.
+  * The returned data should be appended to that returned by uncompress().
+ @@ -626,49 +761,40 @@ class UnCompress
+ void[] flush()
+ in
+ {
+ -   assert(!done);
+ +   assert(!done, "Buffer has been flushed before.");
+ }
+ out
+ {
+ -   assert(done);
+ +   assert(done, "Flushing failed.");
+ }
+ - body
+ + do
+ {
+ -   import core.memory : GC;
+ -   ubyte[] extra;
+ -   ubyte[] destbuf;
+ -   int err;
+ -
+     done = 1;
+ -   if (!inited)
+ -     return null;
+ +   return null;
+ }
+
+ - L1:
+ -   destbuf = new ubyte[zs.avail_in * 2 + 100];
+ -   zs.next_out = destbuf.ptr;

```

```

-   zs.avail_out = to!uint(destbuf.length);
+
+   /// Returns true if all input data has been decompressed and no further data
+   /// can be decompressed (inflate() returned Z_STREAM_END)
+   @property bool empty() const
+   {
+       return inputEnded;
+   }

-   err = etc.c.zlib.inflate(&zs, Z_NO_FLUSH);
-   if (err == Z_OK && zs.avail_out == 0)
-   {
-       extra ~= destbuf;
-       goto L1;
-   }
-   if (err != Z_STREAM_END)
-   {
-       GC.free(destbuf.ptr);
-       if (err == Z_OK)
-           err = Z_BUF_ERROR;
-       error(err);
-   }
-   destbuf = destbuf.ptr[0 .. zs.next_out - destbuf.ptr];
-   err = etc.c.zlib.inflateEnd(&zs);
-   inited = 0;
-   if (err)
-       error(err);
-   if (extra.length)
-       destbuf = extra ~ destbuf;
-   return destbuf;
+   ///
+   @system unittest
+   {
+       // some random data
+       ubyte[1024] originalData = void;
+
+       // append garbage data (or
+       don't, this works in both cases)
+       auto compressedData = cast(ubyte[]) compress(originalData) ~ cast(ubyte[]) "whatever";
+
+       auto decompressor = new UnCompress();
+       auto uncompressedData = decompressor.uncompress(compressedData);
+
+       assert(uncompressedData[] == originalData[],
+             "The uncompressed and the original data differ");
+       assert(decompressor.empty, "The UnCompressor reports not being done");
+   }
+ }

```

--

2.35.1

Found in path(s):

\* /opt/cola/permits/1327775260\_1657893467.828745/0/gcc-11-2-1-tar-gz/0016-dlang-update-zlib-binding.patch

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

From 18bcf23cae4069ffe9d9f64e851193d29dd4814f Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?S=C3=B6ren=20Tempel?= <soeren+git@soeren-tempel.net>

Date: Mon, 3 Jan 2022 07:14:48 +0100

Subject: [PATCH] riscv: disable multilib support

MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

From the musl wiki [1]:

musl does not support sharing an include directory between archs [...], and thus is not compatible with GCC-style multilib. It is recommended that distributions build GCC with multilib disabled, and use library directories named lib, not lib64 or lib32.

For this reason, we patch existing GCC configuration files (gcc/config) to pin MULTILIB\_OSDIRNAMES to lib, there is also a corresponding GCC upstream bug about this issue [2]. Avoiding the use of lib64 and lib32 directories is a bit more difficult on the RISC-V architecture. This is due to the fact that the default RISC-V configuration does not only use the lib64 and lib32 directories but also subdirectories within these directories for different RISC-V ABIs (e.g. lp64d, lp64, ...) [3].

This patch aligns the RISC-V configuration with other architectures by pinning MULTILIB\_OSDIRNAMES to lib for rv64gc (our default RISC-V -march). Furthermore, this patch removes the ABI-specific startfile prefix spec. Since both of these impact the default LIBRARY\_PATH [4] this patch thereby aligns the default RISC-V LIBRARY\_PATH with that from other Alpine architectures and thereby fixes #13369 [5].

Incidentally, this also fixes gccgo on riscv64, as without this patch gccgo is otherwise not able to find the \*.gox files for the Go standard library.

[1]: [https://wiki.musl-libc.org/guidelines-for-distributions.html#Multilib/multi\\_arch](https://wiki.musl-libc.org/guidelines-for-distributions.html#Multilib/multi_arch)

[2]: [https://gcc.gnu.org/bugzilla/show\\_bug.cgi?id=90077](https://gcc.gnu.org/bugzilla/show_bug.cgi?id=90077)

[3]: [https://gcc.gnu.org/bugzilla/show\\_bug.cgi?id=103889#c14](https://gcc.gnu.org/bugzilla/show_bug.cgi?id=103889#c14)

[4]:

<https://gcc.gnu.org/git/?p=gcc.git;a=blob;f=gcc/gcc.c;h=d4c8746b0aa322286decf92aa72a12f0a393b655;hb=HEAD>

#19122

[5]:

<https://gitlab.alpinelinux.org/alpine/aports/-/issues/13369>

---

gcc/config/riscv/linux.h | 6 -----

gcc/config/riscv/t-linux | 7 +++++--

2 files changed, 5 insertions(+), 8 deletions(-)

diff --git a/gcc/config/riscv/linux.h b/gcc/config/riscv/linux.h

index ee29979dd34..fe8a82d6702 100644

--- a/gcc/config/riscv/linux.h

+++ b/gcc/config/riscv/linux.h

@@ -71,9 +71,3 @@ along with GCC; see the file COPYING3. If not see

%{static:-static} }"

#define TARGET\_ASM\_FILE\_END file\_end\_indicate\_exec\_stack

-

+#define STARTFILE\_PREFIX\_SPEC \

- "/lib" XLEN\_SPEC "/" ABI\_SPEC "/" " \

- "/usr/lib" XLEN\_SPEC "/" ABI\_SPEC "/" " \

- "/lib/ " \

- "/usr/lib/ "

diff --git a/gcc/config/riscv/t-linux b/gcc/config/riscv/t-linux

index 216d2776a18..1a8a863853e 100644

--- a/gcc/config/riscv/t-linux

+++ b/gcc/config/riscv/t-linux

@@ -1,3 +1,6 @@

+# Only XLEN and ABI affect Linux multilib dir names, e.g. /lib32/ilp32d/

-MULTILIB\_DIRNAMES := \$(patsubst rv32%,lib32,\$(patsubst

rv64%,lib64,\$(MULTILIB\_DIRNAMES)))

+MULTILIB\_OPTIONS := march=rv64gc

+MULTILIB\_DIRNAMES := rv64gc

+

+MULTILIB\_DIRNAMES := \$(patsubst rv32%,lib32,\$(patsubst rv64%,lib,\$(MULTILIB\_DIRNAMES)))

MULTILIB\_OSDIRNAMES := \$(patsubst lib%../lib%,\$(MULTILIB\_DIRNAMES))

+MULTILIB\_MATCHES := march?rv64gc=march?rv64imafdc

--

2.35.1

Found in path(s):

\* /opt/cola/permits/1327775260\_1657893467.828745/0/gcc-11-2-1-tar-gz/0029-riscv-disable-multilib-support.patch

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

From 7b5108375bb67532af30d1e7f553ac5f3b1096fe Mon Sep 17 00:00:00 2001

From: Jakub Jelinek <jakub@redhat.com>

Date: Mon, 24 Jan 2022 11:13:39 +0100

Subject: [PATCH] properly disable -fsplit-stack on non-glibc targets

[PR104170]



MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

On Sat, Jan 22, 2022 at 10:32:21AM +0100, Martin Liška wrote:

> I've just noticed the patch broke a few cross compilers:

>

> s390x-ibm-tpf:

>

> /home/marxin/buildworker/zen2-cross-compilers/build/gcc/common/config/s390/s390-common.cc: In function  
'bool s390\_supports\_split\_stack(bool, gcc\_options\*)':

> /home/marxin/buildworker/zen2-cross-compilers/build/gcc/common/config/s390/s390-common.cc:126:13: error:  
'struct gcc\_options' has no member named 'x\_linux\_libc'

> 126 | if (opts->x\_linux\_libc == LIBC\_GLIBC)

> |        ^~~~~~

>

> i686-kopensolaris-gnu, i686-symbolics-gnu

>

> /home/marxin/buildworker/zen2-cross-compilers/build/gcc/common/config/i386/i386-common.cc:

In function 'bool ix86\_supports\_split\_stack(bool, gcc\_options\*)':

> /home/marxin/buildworker/zen2-cross-compilers/build/gcc/common/config/i386/i386-common.cc:1721:13: error:  
'struct gcc\_options' has no member named 'x\_linux\_libc'

> 1721 | if (opts->x\_linux\_libc != LIBC\_GLIBC)

> |        ^~~~~~

> make[1]: \*\*\* [Makefile:2418: i386-common.o] Error 1

>

> Can you please take a look? Btw. do you have a bugzilla account?

I bet instead of `opts->x_linux_libc != LIBC_GLIBC` it needs to use

```
#ifdef OPTION_GLIBC
```

```
  if (!OPTION_GLIBC)
```

```
#endif
```

or so. I think the first committed patch actually used that

but used it in `#if` directive, which is wrong because it is something  
that needs to be evaluated at runtime.

That doesn't work well either, because the `*supports_split_stack`  
hooks have `opts` argument and `OPTION_GLIBC` doesn't take that.

So, here is a patch that introduces `OPTION_*_P` macros that take `opts`  
as

an argument and redefines `OPTION_*` using those (similarly to how  
the option scripts create `TARGET_*_P` and `TARGET_*` macros).

2022-01-24 Jakub Jelinek <jakub@redhat.com>

PR bootstrap/104170

\* config/linux.h (OPTION\_GLIBC\_P, OPTION\_UCLIBC\_P,

```

OPTION_BIONIC_P, OPTION_MUSL_P): Define.
(OPTION_GLIBC, OPTION_UCLIBC, OPTION_BIONIC, OPTION_MUSL): Redefine
using OPTION_*_P macros.
* config/alpha/linux.h (OPTION_GLIBC_P, OPTION_UCLIBC_P,
OPTION_BIONIC_P, OPTION_MUSL_P): Define.
(OPTION_GLIBC, OPTION_UCLIBC, OPTION_BIONIC, OPTION_MUSL): Redefine
using OPTION_*_P macros.
* config/rs6000/linux.h (OPTION_GLIBC_P, OPTION_UCLIBC_P,
OPTION_BIONIC_P, OPTION_MUSL_P): Define.
(OPTION_GLIBC, OPTION_UCLIBC, OPTION_BIONIC, OPTION_MUSL): Redefine
using OPTION_*_P macros.
* config/rs6000/linux64.h (OPTION_GLIBC_P, OPTION_UCLIBC_P,
OPTION_BIONIC_P, OPTION_MUSL_P): Define.
(OPTION_GLIBC, OPTION_UCLIBC, OPTION_BIONIC, OPTION_MUSL): Redefine
using OPTION_*_P macros.
* config/fuchsia.h (OPTION_MUSL_P):
Redefine.
* config/glibc-stdint.h (OPTION_MUSL_P): Define if not defined.
* common/config/s390/s390-common.cc (s390_supports_split_stack): Re-add
ATTRIBUTE_UNUSED to opts parameter. If OPTION_GLIBC_P is defined, use
OPTION_GLIBC_P (opts) as condition, otherwise assume if (false).
* common/config/i386/i386-common.cc (ix86_supports_split_stack): If
OPTION_GLIBC_P is defined use !OPTION_GLIBC_P (opts) as condition,
otherwise assume if (true).
---
gcc/common/config/i386/i386-common.c | 4 +++
gcc/common/config/s390/s390-common.c | 6 ++++
gcc/config/alpha/linux.h          | 25 ++++++-----
gcc/config/fuchsia.h              | 2 ++
gcc/config/glibc-stdint.h         | 3 +++
gcc/config/linux.h                | 25 ++++++-----
gcc/config/rs6000/linux.h         | 25 ++++++-----
gcc/config/rs6000/linux64.h       | 25 ++++++-----
8 files changed, 71 insertions(+), 44 deletions(-)

diff --git
a/gcc/common/config/i386/i386-common.c b/gcc/common/config/i386/i386-common.c
index a3b5258e828..864e68ab985 100644
--- a/gcc/common/config/i386/i386-common.c
+++ b/gcc/common/config/i386/i386-common.c
@@ -1699,8 +1699,8 @@ static bool
ix86_supports_split_stack (bool report,
    struct gcc_options *opts ATTRIBUTE_UNUSED)
{
-#ifdef TARGET_THREAD_SPLIT_STACK_OFFSET
- if (opts->x_linux_libc != LIBC_GLIBC)
+ #if defined(TARGET_THREAD_SPLIT_STACK_OFFSET) && defined(OPTION_GLIBC_P)
+ if (!OPTION_GLIBC_P (opts))

```

```

#endif
{
    if (report)
diff --git a/gcc/common/config/s390/s390-common.c b/gcc/common/config/s390/s390-common.c
index 8c1e590322d..11116f131cb 100644
--- a/gcc/common/config/s390/s390-common.c
+++ b/gcc/common/config/s390/s390-common.c
@@ -121,10 +121,12 @@ s390_handle_option (struct gcc_options *opts ATTRIBUTE_UNUSED,

static bool
s390_supports_split_stack (bool report,
-   struct gcc_options *opts)
+   struct gcc_options *opts ATTRIBUTE_UNUSED)
{
-   if (opts->x_linux_libc
== LIBC_GLIBC)
+#ifdef OPTION_GLIBC_P
+   if (OPTION_GLIBC_P (opts))
        return true;
+#endif

    if (report)
        error ("%<-fsplit-stack%> currently only supported on GNU/Linux");
diff --git a/gcc/config/alpha/linux.h b/gcc/config/alpha/linux.h
index bde7fb0d292..812ec8ecb31 100644
--- a/gcc/config/alpha/linux.h
+++ b/gcc/config/alpha/linux.h
@@ -58,18 +58,23 @@ along with GCC; see the file COPYING3.  If not see
#define WCHAR_TYPE "int"

#ifdef SINGLE_LIBC
-#define OPTION_GLIBC (DEFAULT_LIBC == LIBC_GLIBC)
-#define OPTION_UCLIBC (DEFAULT_LIBC == LIBC_UCLIBC)
-#define OPTION_BIONIC (DEFAULT_LIBC == LIBC_BIONIC)
-#undef OPTION_MUSL
-#define OPTION_MUSL (DEFAULT_LIBC == LIBC_MUSL)
+#define OPTION_GLIBC_P(opts) (DEFAULT_LIBC == LIBC_GLIBC)
+#define OPTION_UCLIBC_P(opts) (DEFAULT_LIBC == LIBC_UCLIBC)
+#define OPTION_BIONIC_P(opts) (DEFAULT_LIBC == LIBC_BIONIC)
+#undef OPTION_MUSL_P
+#define OPTION_MUSL_P(opts) (DEFAULT_LIBC == LIBC_MUSL)
#else
-#define OPTION_GLIBC
    (linux_libc == LIBC_GLIBC)
-#define OPTION_UCLIBC (linux_libc == LIBC_UCLIBC)
-#define OPTION_BIONIC (linux_libc == LIBC_BIONIC)
-#undef OPTION_MUSL
-#define OPTION_MUSL (linux_libc == LIBC_MUSL)

```

```

+#define OPTION_GLIBC_P(opts) ((opts)->x_linux_libc == LIBC_GLIBC)
+#define OPTION_UCLIBC_P(opts) ((opts)->x_linux_libc == LIBC_UCLIBC)
+#define OPTION_BIONIC_P(opts) ((opts)->x_linux_libc == LIBC_BIONIC)
+#undef OPTION_MUSL_P
+#define OPTION_MUSL_P(opts) ((opts)->x_linux_libc == LIBC_MUSL)
#endif
+#define OPTION_GLIBC OPTION_GLIBC_P (&global_options)
+#define OPTION_UCLIBC OPTION_UCLIBC_P (&global_options)
+#define OPTION_BIONIC OPTION_BIONIC_P (&global_options)
+#undef OPTION_MUSL
+#define OPTION_MUSL OPTION_MUSL_P (&global_options)

/* Determine what functions are present at the runtime;
   this includes full c99 runtime and sincos. */
diff --git a/gcc/config/fuchsia.h b/gcc/config/fuchsia.h
index 54602dc300d..47c0dfd8b81 100644
--- a/gcc/config/fuchsia.h
+++ b/gcc/config/fuchsia.h
@@
-52,6 +52,8 @@ along with GCC; see the file COPYING3. If not see
/* We are using MUSL as our libc. */
#undef OPTION_MUSL
#define OPTION_MUSL 1
+#undef OPTION_MUSL_P
+#define OPTION_MUSL_P(opts) 1

#ifndef TARGET_SUB_OS_CPP_BUILTINS
#define TARGET_SUB_OS_CPP_BUILTINS()
diff --git a/gcc/config/glibc-stdint.h b/gcc/config/glibc-stdint.h
index c8d7ba18d1c..f095197514f 100644
--- a/gcc/config/glibc-stdint.h
+++ b/gcc/config/glibc-stdint.h
@@ -27,6 +27,9 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see
#ifndef OPTION_MUSL
#define OPTION_MUSL 0
#endif
+#ifndef OPTION_MUSL_P
+#define OPTION_MUSL_P(opts) 0
+#endif

#define SIG_ATOMIC_TYPE "int"

diff --git a/gcc/config/linux.h b/gcc/config/linux.h
index 7fcf402b416..ab62a1741f7 100644
--- a/gcc/config/linux.h
+++ b/gcc/config/linux.h
@@ -29,18 +29,23 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see

```

```

/* C libraries supported on Linux. */
#ifdef SINGLE_LIBC
#define OPTION_GLIBC
    (DEFAULT_LIBC == LIBC_GLIBC)
#define OPTION_UCLIBC (DEFAULT_LIBC == LIBC_UCLIBC)
#define OPTION_BIONIC (DEFAULT_LIBC == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (DEFAULT_LIBC == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) (DEFAULT_LIBC == LIBC_GLIBC)
#define OPTION_UCLIBC_P(opts) (DEFAULT_LIBC == LIBC_UCLIBC)
#define OPTION_BIONIC_P(opts) (DEFAULT_LIBC == LIBC_BIONIC)
#undef OPTION_MUSL_P
#define OPTION_MUSL_P(opts) (DEFAULT_LIBC == LIBC_MUSL)
#else
#define OPTION_GLIBC (linux_libc == LIBC_GLIBC)
#define OPTION_UCLIBC (linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC (linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (linux_libc == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) ((opts)->x_linux_libc == LIBC_GLIBC)
#define OPTION_UCLIBC_P(opts) ((opts)->x_linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC_P(opts) ((opts)->x_linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL_P
#define OPTION_MUSL_P(opts) ((opts)->x_linux_libc == LIBC_MUSL)
#endif
#define
    OPTION_GLIBC OPTION_GLIBC_P (&global_options)
#define OPTION_UCLIBC OPTION_UCLIBC_P (&global_options)
#define OPTION_BIONIC OPTION_BIONIC_P (&global_options)
#undef OPTION_MUSL
#define OPTION_MUSL OPTION_MUSL_P (&global_options)

#define GNU_USER_TARGET_OS_CPP_BUILTINS() \
    do { \
diff --git a/gcc/config/rs6000/linux.h b/gcc/config/rs6000/linux.h
index 47c9d9ac0b6..be04462d357 100644
--- a/gcc/config/rs6000/linux.h
+++ b/gcc/config/rs6000/linux.h
@@ -27,18 +27,23 @@
#define NO_PROFILE_COUNTERS 1

#ifdef SINGLE_LIBC
#define OPTION_GLIBC (DEFAULT_LIBC == LIBC_GLIBC)
#define OPTION_UCLIBC (DEFAULT_LIBC == LIBC_UCLIBC)
#define OPTION_BIONIC (DEFAULT_LIBC == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (DEFAULT_LIBC == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) (DEFAULT_LIBC == LIBC_GLIBC)

```

```

+#define OPTION_UCLIBC_P(opts) (DEFAULT_LIBC == LIBC_UCLIBC)
+#define OPTION_BIONIC_P(opts) (DEFAULT_LIBC == LIBC_BIONIC)
+#undef OPTION_MUSL_P
+#define
OPTION_MUSL_P(opts) (DEFAULT_LIBC == LIBC_MUSL)
#else
-#define OPTION_GLIBC (linux_libc == LIBC_GLIBC)
-#define OPTION_UCLIBC (linux_libc == LIBC_UCLIBC)
-#define OPTION_BIONIC (linux_libc == LIBC_BIONIC)
-#undef OPTION_MUSL
-#define OPTION_MUSL (linux_libc == LIBC_MUSL)
+#define OPTION_GLIBC_P(opts) ((opts)->x_linux_libc == LIBC_GLIBC)
+#define OPTION_UCLIBC_P(opts) ((opts)->x_linux_libc == LIBC_UCLIBC)
+#define OPTION_BIONIC_P(opts) ((opts)->x_linux_libc == LIBC_BIONIC)
+#undef OPTION_MUSL_P
+#define OPTION_MUSL_P(opts) ((opts)->x_linux_libc == LIBC_MUSL)
#endif
+#define OPTION_GLIBC OPTION_GLIBC_P (&global_options)
+#define OPTION_UCLIBC OPTION_UCLIBC_P (&global_options)
+#define OPTION_BIONIC OPTION_BIONIC_P (&global_options)
+#undef OPTION_MUSL
+#define OPTION_MUSL OPTION_MUSL_P (&global_options)

/* Determine what functions are present at the runtime;
   this includes full c99 runtime and sincos. */
diff --git a/gcc/config/rs6000/linux64.h b/gcc/config/rs6000/linux64.h
index
43499ed29cf..1d73a09a476 100644
--- a/gcc/config/rs6000/linux64.h
+++ b/gcc/config/rs6000/linux64.h
@@ -267,18 +267,23 @@ extern int dot_symbols;
#define OS_MISSING_POWERPC64 !TARGET_64BIT

#ifdef SINGLE_LIBC
-#define OPTION_GLIBC (DEFAULT_LIBC == LIBC_GLIBC)
-#define OPTION_UCLIBC (DEFAULT_LIBC == LIBC_UCLIBC)
-#define OPTION_BIONIC (DEFAULT_LIBC == LIBC_BIONIC)
-#undef OPTION_MUSL
-#define OPTION_MUSL (DEFAULT_LIBC == LIBC_MUSL)
+#define OPTION_GLIBC_P(opts) (DEFAULT_LIBC == LIBC_GLIBC)
+#define OPTION_UCLIBC_P(opts) (DEFAULT_LIBC == LIBC_UCLIBC)
+#define OPTION_BIONIC_P(opts) (DEFAULT_LIBC == LIBC_BIONIC)
+#undef OPTION_MUSL_P
+#define OPTION_MUSL_P(opts) (DEFAULT_LIBC == LIBC_MUSL)
#else
-#define OPTION_GLIBC (linux_libc == LIBC_GLIBC)
-#define OPTION_UCLIBC (linux_libc == LIBC_UCLIBC)
-#define OPTION_BIONIC (linux_libc == LIBC_BIONIC)

```

```

-#undef OPTION_MUSL
-#define OPTION_MUSL (linux_libc == LIBC_MUSL)
+#define OPTION_GLIBC_P(opts) ((opts)->x_linux_libc == LIBC_GLIBC)
+#define
OPTION_UCLIBC_P(opts) ((opts)->x_linux_libc == LIBC_UCLIBC)
+#define OPTION_BIONIC_P(opts) ((opts)->x_linux_libc == LIBC_BIONIC)
+#undef OPTION_MUSL_P
+#define OPTION_MUSL_P(opts) ((opts)->x_linux_libc == LIBC_MUSL)
#endif
+#define OPTION_GLIBC OPTION_GLIBC_P (&global_options)
+#define OPTION_UCLIBC OPTION_UCLIBC_P (&global_options)
+#define OPTION_BIONIC OPTION_BIONIC_P (&global_options)
+#undef OPTION_MUSL
+#define OPTION_MUSL OPTION_MUSL_P (&global_options)

/* Determine what functions are present at the runtime;
   this includes full c99 runtime and sincos. */
--
2.35.1

```

Found in path(s):

\* /opt/cola/permits/1327775260\_1657893467.828745/0/gcc-11-2-1-tar-gz/0049-properly-disable-fsplit-stack-on-non-glibc-targets-P.patch

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

From 400bae077d11c3a2ee9f4c8b96c31bbf39416a4f Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?S=C3=B6ren=20Tempel?= <soeren@soeren-tempel.net>

Date: Mon, 21 Feb 2022 04:13:47 +0100

Subject: [PATCH] x86: Fix -fsplit-stack feature detection via  
TARGET\_CAN\_SPLIT\_STACK

MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

Since commit c163647ffbc9a20c8feb6e079dbecccf016c82e -fsplit-stack is only supported on glibc targets. However, this original commit required some fixups. As part of the fixup, the changes to the gnu-user-common.h and gnu.h were partially reverted in commit 60953a23d57b13a672f751bec0c6eefc059eb1ab thus causing TARGET\_CAN\_SPLIT\_STACK to be defined for non-glibc targets even though -fsplit-stack is actually not supported and attempting to use it causes a runtime error.

This causes gcc internal code, such as ./gcc/go/gospec.c to not correctly detect that -fsplit-stack is not supported and thus causes gccgo to fail compilation on non-glibc targets.

This commit ensures that TARGET\_CAN\_SPLIT\_STACK is set based on the

changes performed in 2c31a8be4a5db11a0a0e97c366dded6362421086, i.e. the new OPTION\_GLIBC\_P macro is now used to detect if -fsplit-stack is supported in the x86 header files.

The proposed changes have been tested on x86\_64 Alpine Linux (which uses musl libc) and fix compilation of gccgo for this target.

Signed-off-by: Sören Tempel <soeren@soeren-tempel.net>

gcc/ChangeLog:

```
* config/i386/gnu-user-common.h (defined): Only define
  TARGET_CAN_SPLIT_STACK for glibc targets.
* config/i386/gnu.h (defined): Ditto.
```

---

```
gcc/config/i386/gnu-user-common.h | 5 +++--
gcc/config/i386/gnu.h             | 5 +++--
2 files changed, 6 insertions(+), 4 deletions(-)
```

```
diff --git a/gcc/config/i386/gnu-user-common.h b/gcc/config/i386/gnu-user-common.h
index 00226f5a455..4e3fbb1de05 100644
--- a/gcc/config/i386/gnu-user-common.h
+++ b/gcc/config/i386/gnu-user-common.h
@@
-66,7 +66,8 @@ along with GCC; see the file COPYING3. If not see
#define STACK_CHECK_STATIC_BUILTIN 1
```

```
/* We only build the -fsplit-stack support in libgcc if the
- assembler has full support for the CFI directives. */
-#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE
+ assembler has full support for the CFI directives. Also
+ we only support -fsplit-stack on glibc targets. */
+#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE && defined(OPTION_GLIBC_P)
#define TARGET_CAN_SPLIT_STACK
#endif
```

```
diff --git a/gcc/config/i386/gnu.h b/gcc/config/i386/gnu.h
index 25fbc07f58c..41a6a37dfee 100644
--- a/gcc/config/i386/gnu.h
+++ b/gcc/config/i386/gnu.h
@@ -41,8 +41,9 @@ along with GCC. If not, see <http://www.gnu.org/licenses/>.
#define TARGET_THREAD_SSP_OFFSET    0x14
```

```
/* We only build the -fsplit-stack support in libgcc if the
- assembler has full support for the CFI directives. */
-#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE
+ assembler has full support for the CFI directives.
  Also
+ we only support -fsplit-stack on glibc targets. */
```



```
+#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE && defined(OPTION_GLIBC_P)
#define TARGET_CAN_SPLIT_STACK
#endif
/* We steal the last transactional memory word. */
--
2.35.1
```

Found in path(s):

```
* /opt/cola/permits/1327775260_1657893467.828745/0/gcc-11-2-1-tar-gz/0050-x86-Fix-fsplit-stack-feature-
detection-via-TARGET_CA.patch
```

## 1.509 zlib 1.2.11

### 1.509.1 Available under license :

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

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

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

\*/

# 1.510 e2fsprogs 1.45.5 2ubuntu1.1

## 1.510.1 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:

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

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

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On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in `/usr/share/common-licenses/LGPL-2`. This is the Debian GNU/Linux prepackaged version of the static EXT2 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>.

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

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

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#

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

#

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

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

```
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~/$(BSD_LIB) $(BSD_LIB))
```

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. 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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

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

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Index: tdbsa/tdb.c

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

+++ tdbsa/tdb.c

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

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

\*/

/\*

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

- trivial database library - private includes

-

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Gadi Oxman, August 1995

-----  
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```

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```
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```

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

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DRuntime: Runtime Library for the D Programming Language

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Version 3, 29 June 2007

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# COPYING.other          -*- org -*-  
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#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.  
-----

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# 1.516 gnutls 3.6.13-2ubuntu1.7

## 1.516.1 Available under license :

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#####

```
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## version 0.1  
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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## 1.517 bzip2 1.0.8-r2

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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## 1.518 zlib 1.2.12-r3

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# 1.520 procps 3.3.17-r1

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inline

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# 1.521 libproc 3.3.17-r1

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

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# 1.522 htop 3.2.0-r1

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## 1.523 base-files 11ubuntu5.6

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# 1.524 chardet 4.0.0

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Any executables

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

# 1.525 html5lib 1.1

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## 1.526 colorama 0.4.4

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## 1.527 webencodings 0.5.1

### 1.527.1 Available under license :

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python-webencodings  
=====

This is a Python implementation of the `WHATWG Encoding standard`  
<<http://encoding.spec.whatwg.org/>>`\_`.

- \* Latest documentation: <http://packages.python.org/webencodings/>
- \* Source code and issue tracker:  
<https://github.com/gsnedders/python-webencodings>
- \* PyPI releases: <http://pypi.python.org/pypi/webencodings>
- \* License: BSD
- \* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

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```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```
VERSION = re.search("VERSION = '([^\']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()
```

```
setup(
```

```

name='webencodings',
version=VERSION,
url='https://github.com/SimonSapin/python-webencodings',
license='BSD',
author='Simon Sapin',
author_email='simon.sapin@exyr.org',
maintainer='Geoffrey Sneddon',
maintainer_email='me@gsnedders.com',
description='Character encoding aliases for legacy web content',
long_description=LONG_DESCRIPTION,
classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language
:: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
```

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"""

webencodings.mklabels

~~~~~

Regenerate the webencodings.labels module.

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"""

```

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ["\
"""

webencodings.labels
~~~~~

Map encoding labels to their name.

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"""

# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    ""
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
         for category in json.loads(urlopen(url).read().decode('ascii'))
         for encoding in category['encodings']
         for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        ' %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}')
    return ".join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

```

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/\_\_init\_\_.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x\_user\_defined.py

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: [me@gsnedders.com](mailto:me@gsnedders.com)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard` <<http://encoding.spec.whatwg.org/>>` \_.

\* Latest documentation: <http://packages.python.org/webencodings/>

\* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

\* PyPI releases: <http://pypi.python.org/pypi/webencodings>

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\* Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set

of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually

aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do

not have to reverse-engineer each other.

This module has encoding labels and BOM detection,  
but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python

:: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO

# 1.528 packaging 21.3

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Version 2.0, January 2004

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# 1.530 pep517 0.12.0

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## 1.531 idna 14.0.0

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## 1.532 python-setuptools 58.1.0

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## 1.533 gopkg.in-yaml 2.4.0

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## 1.534 libcrypt 4.4.10-10ubuntu4

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## 1.540 protobuf 1.27.1

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=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](<https://www.gnu.org/licenses/lgpl.html>) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL

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#### ## BearSSL

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#### ## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

#### ## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

#### ## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any

other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

## 1.553 tzdata 2022c-0ubuntu0.20.04.0

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## 1.554 golang 1.18.6

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```
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* Create mount directories in fstab
*
* Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>
* May be distributed under the terms of GPL-2
*
* usage: mkmntdirs [fstab]
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1413259866_1664205148.023589/0/alpine-baselayout-3-2-0-r23-tgz/mkmntdirs.c
```

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```
/opt/cola/permits/1413259866_1664205148.023589/0/alpine-baselayout-3-2-0-r23-tgz/z: binary file matches
```

Found in path(s):

```
* /bin/grep
```

# 1.556 alpine-baselayout-data 3.2.0-r23

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/opt/cola/permits/1415439565_1664205532.7928042/0/alpine-baselayout-3-2-0-r23-tgz/z: binary file matches
```

Found in path(s):

```
* /bin/grep
```

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```
/*
* Create mount directories in fstab
*
* Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>
* May be distributed under the terms of GPL-2
*
* usage: mkmntdirs [fstab]
*
*/
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Found in path(s):

# 1.557 textfsm 1.1.2

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## 1.563 pcre 10.34-7ubuntu0.1

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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## PCRE2 JUST-IN-TIME COMPILATION SUPPORT

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Written by: Zoltan Herczeg  
Email local part: hzmester  
Email domain: freemail.hu

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Email local part: hzmester  
Email domain: freemail.hu

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## 1.567 pcre 8.39-12ubuntu0.1

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-----

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

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## 1.568 audit 2.8.5-2ubuntu6

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Aamir Khan <syst3m.w0rm@gmail.com>  
Aaron Beitch <aaronb@arista.com>  
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Aaron Cannon <cannona@fireantproductions.com>  
Aaron France <aaron.l.france@gmail.com>  
Aaron Jacobs <jacobsa@google.com>  
Aaron Jensen <jensen.aaro@gmail.com>  
Aaron Kemp <kemp.aaron@gmail.com>  
Aaron Patterson <tenderlove@ruby-lang.org>  
Aaron Sheah <aaronsheah@gmail.com>  
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Abhinav Gupta <abhinav.g90@gmail.com>  
Adam Azarchs <adam.azarchs@10xgenomics.com>  
Adam Bender <abender@google.com>  
Adam Eijdenberg <adam@continusec.com>  
Adam Harvey <aharvey@php.net>  
Adam Kisala <adam.kisala@gmail.com>  
Adam Langley <agl@golang.org>  
Adam Medzinski <adam.medzinski@gmail.com>  
Adam Mitha <adam.mitha@gmail.com>  
Adam  
Shannon <adamkshannon@gmail.com>  
Adam Shelton <aashelt90@gmail.com>  
Adam Sindelar <adamsh@google.com>  
Adam Thomason <athomason@gmail.com>  
Adam Williams <pwnfactory@gmail.com>  
Adam Woodbeck <adam@woodbeck.net>  
Adarsh Ravichandran <adarshravichandran91@gmail.com>  
Adel Rodriguez <adel.rodriguez@leftfieldlabs.com>  
Adin Scannell <ascannell@google.com>

Aditya Harindar <aditya.harindar@gmail.com>  
Aditya Mukerjee <dev@chimeracoder.net>  
Adrian Hesketh <adrianhesketh@hushmail.com>  
Adrian Nos <nos.adrian@gmail.com>  
Adrian O'Grady <elpollouk@gmail.com>  
Adrien Bustany <adrien-xx-google@bustany.org>  
Adrien Delorme <adrien.delorme@icloud.com>  
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Ahmy Yulrizka <yulrizka@gmail.com>  
Ahsun Ahmed <ahmed.ahsun@gmail.com>  
Aidan Coyle <packrat386@gmail.com>  
Aiden Scandella <ai@uber.com>  
Ainar Garipov <gugl.zadolbal@gmail.com>  
Aishraj Dahal <aishraj@users.noreply.github.com>  
Ajanthan Balachandran <balaajanathan@gmail.com>  
Akhil Indurti <aindurti@gmail.com>  
Akihiro Suda <suda.kyoto@gmail.com>  
Akshat Kumar <seed@mail.nanosouffle.net>  
Al Cutter <al@google.com>  
Alan Braithwaite <alan@ipaddr.org>  
Alan Donovan <adonovan@google.com>  
Alan Shreve <alan@inconshreveable.com>  
Albert Nigmatzianov <albertnigma@gmail.com>  
Albert Strasheim <fullung@gmail.com>  
Albert Teoh <albert.teoh@gmail.com>  
Albert Yu <yukinying@gmail.com>  
Alberto Bertogli <albertito@blitiri.com.ar>  
Alberto Donizetti <alb.donizetti@gmail.com>  
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>  
Alec Benzer <alec.benzer@gmail.com>  
Alejandro Garca Montoro <alejandro.garciamontoro@gmail.com>  
Aleksa Sarai <cyphar@cyphar.com>  
Aleksandar  
Dezelin <dezelin@gmail.com>  
Aleksandr Lukinykh <a.lukinykh@xsolla.com>  
Aleksandr Razumov <ar@cydev.ru>  
Alekseev Artem <a.artem060@gmail.com>  
Aleksei Tirman <aleksei.tirman@jetbrains.com>

Alessandro Arzilli <alessandro.arzilli@gmail.com>  
Alessandro Baffa <alessandro.baffa@gmail.com>  
Alex A Skinner <alex@lx.lc>  
Alex Brainman <alex.brainman@gmail.com>  
Alex Bramley <abramley@google.com>  
Alex Browne <stephenalexbrowne@gmail.com>  
Alex Buchanan <buchanae@gmail.com>  
Alex Carol <alex.carol.c@gmail.com>  
Alex Gaynor <alex@alloy.us>  
Alex Harford <alex.harford@saucelabs.com>  
Alex Hays <alex.hays@leftfieldlabs.com>  
Alex Jin <toalexjin@gmail.com>  
Alex Kohler <alexjohnkohler@gmail.com>  
Alex Myasoedov <msoedov@gmail.com>  
Alex Opie <amtopie@gmail.com>  
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>  
Alex Schade <39062967+aschade92@users.noreply.github.com>  
Alex Schroeder <alex@gnu.org>  
Alex Sergeev <abc@alexsergeev.com>  
Alex Tokarev <aleksator@gmail.com>  
Alex Vaghin <crhyme@google.com>  
Alex  
Zhirov <azhirov@google.com>  
Alexander Demakin <alexander.demakin@gmail.com>  
Alexander Dring <email@alex.d.ch>  
Alexander F Rdseth <alexander.rodseth@appeartv.com>  
Alexander Greim <alexxx@iltempo.de>  
Alexander Guz <kalimatas@gmail.com>  
Alexander Kauer <alexander@affine.space>  
Alexander Klauer <Alexander.Klauer@googlemail.com>  
Alexander Kucherenko <alxkchr@gmail.com>  
Alexander Larsson <alexander.larsson@gmail.com>  
Alexander Lourier <aml@rulezz.ru>  
Alexander Melentyev <alexander@melentyev.org>  
Alexander Menzhinsky <amenzhinsky@gmail.com>  
Alexander Morozov <lk4d4math@gmail.com>  
Alexander Neumann <alexander@bumper.de>  
Alexander Nohe <alex.nohe427@gmail.com>  
Alexander Orlov <alexander.orlov@loxal.net>  
Alexander Pantyukhin <apantykhin@gmail.com>  
Alexander Polcyn <apolcyn@google.com>  
Alexander Rakoczy <alex@golang.org>  
Alexander Reece <awreece@gmail.com>  
Alexander Surma <surma@surmair.de>  
Alexander Yastrebov <yastrebov.alex@gmail.com>  
Alexander Zhavnerchik <alex.vizor@gmail.com>  
Alexander

Zillion <alex@alexzillion.com>  
Alexander Zolotov <goldifit@gmail.com>  
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>  
Alexandre Cesaro <alexandre.cesaro@gmail.com>  
Alexandre Fiori <fiorix@gmail.com>  
Alexandre Maari <draeron@gmail.com>  
Alexandre Normand <alexandre.normand@gmail.com>  
Alexandre Parentea <aubonbeurre@gmail.com>  
Alexandre Viau <alexandre@alexandreviau.net>  
Alexandru Mooi <brtznr@gmail.com>  
Alexei Sholik <alcosholik@gmail.com>  
Alexey Alexandrov <aalexand@google.com>  
Alexey Borzenkov <snaury@gmail.com>  
Alexey Naidonov <alexey.naidyonov@gmail.com>  
Alexey Neganov <neganovalexey@gmail.com>  
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>  
Alexey Semenyuk <alexsemenyuk88@gmail.com>  
Alexey Vilenskiy <bynovhack@gmail.com>  
Alexis Hildebrandt <surryhill@gmail.com>  
Alexis Hunt <lexer@google.com>  
Alexis Imperial-Legrand <ail@google.com>  
Ali Farooq <ali.farooq0@pm.me>  
Ali Rizvi-Santiago <arizvisa@gmail.com>  
Aliaksandr Valialkin <valyala@gmail.com>  
Alice Merrick <amerrick@google.com>  
Alif  
Rachmawadi <subosito@gmail.com>  
Allan Guwatudde <guwats10@gmail.com>  
Allan Simon <allan.simon@supinfo.com>  
Allen Li <ayatane@google.com>  
Alok Menghrajani <alok.menghrajani@gmail.com>  
Alwin Doss <alwindoss84@gmail.com>  
Aman Gupta <aman@tmm1.net>  
Amarjeet Anand <amarjeetanandsingh@gmail.com>  
Amelia Downs <adowns@vmware.com>  
Amir Mohammad Saied <amir@gluegadget.com>  
Amit Kumar <mittalmailbox@gmail.com>  
Amr Mohammed <merodiro@gmail.com>  
Amrut Joshi <amrut.joshi@gmail.com>  
An Long <aisk1988@gmail.com>  
An Xiao <hac@zju.edu.cn>  
Anand K. Mistry <anand@mistry.ninja>  
Ananya Saxena <ananyasaxena1@gmail.com>  
Anatol Pomozov <anatol.pomozov@gmail.com>  
Anders Pearson <anders@columbia.edu>  
Anderson Queiroz <contato@andersonq.eti.br>  
Andr Carvalho <asantostc@gmail.com>  
Andre Marianiello <andremarianiello@users.noreply.github.com>

Andr Martins <aanm90@gmail.com>  
Andre Nathan <andrenth@gmail.com>  
Andrea Nodari <andrea.nodari91@gmail.com>  
Andrea Simonini <andrea.simonini@gmail.com>  
Andrea Spadaccini  
<spadaccio@google.com>  
Andreas Auernhammer <aead@mail.de>  
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>  
Andreas Litt <andreas.litt@gmail.com>  
Andrei Enshin <b1os@bk.ru>  
Andrei Gherzan <andrei@resin.io>  
Andrei Korzhevskii <a.korzhevskiy@gmail.com>  
Andrei Matei <andrei@cockroachlabs.com>  
Andrei Tudor Clin <mail@acln.ro>  
Andrei Vagin <avagin@google.com>  
Andrei Vieru <euvieru@gmail.com>  
Andres Erbsen <andreser@google.com>  
Andres Lowrie <andres.lowrie@gmail.com>  
Andrew Austin <andrewacht@gmail.com>  
Andrew Balholm <andybalholm@gmail.com>  
Andrew Benton <andrewmbenton@gmail.com>  
Andrew Bonventre <andybons@chromium.org>  
Andrew Braunstein <awbraunstein@gmail.com>  
Andrew Bursavich <abursavich@gmail.com>  
Andrew Ekstedt <andrew.ekstedt@gmail.com>  
Andrew Etter <andrew.etter@gmail.com>  
Andrew G. Morgan <agm@google.com>  
Andrew Gerrand <adg@golang.org>  
Andrew Harding <andrew@spacemonkey.com>  
Andrew Jackura <ajackura@google.com>  
Andrew Kemm <andrewkemm@gmail.com>  
Andrew LeFevre <capnspacehook@gmail.com>  
Andrew  
Louis <alouis@digitalocean.com>  
Andrew Lutomirski <andy@luto.us>  
Andrew Medvedev <andrew.y.medvedev@gmail.com>  
Andrew Pilloud <andrewpilloud@igneoussystem.com>  
Andrew Pogrebnoy <absourd.noise@gmail.com>  
Andrew Poydence <apoydence@pivotal.io>  
Andrew Pritchard <awpritchard@gmail.com>  
Andrew Radev <andrey.radev@gmail.com>  
Andrew Skiba <skibaa@gmail.com>  
Andrew Stormont <astormont@racktopsystems.com>  
Andrew Stribblehill <ads@wompom.org>  
Andrew Szeto <andrew@jabagawee.com>  
Andrew Todd <andrew.todd@wework.com>  
Andrew Wansink <wansink@uber.com>  
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>

Andrew Wilkins <axwalk@gmail.com>  
Andrew Williams <williams.andrew@gmail.com>  
Andrew Z Allen <me@andrewzallen.com>  
Andrey Bokhanko <andreybokhanko@gmail.com>  
Andrey Mirtchovski <mirtchovski@gmail.com>  
Andrey Petrov <andrey.petrov@shazow.net>  
Andrii Soldatenko <andrii.soldatenko@gmail.com>  
Andrii Soluk <isoluchok@gmail.com>  
Andriy Lytvynov <lytvynov.a.v@gmail.com>  
Andrzej  
eel <andrii.zhezhel@gmail.com>  
Andy Balholm <andy@balholm.com>  
Andy Davis <andy@bigandian.com>  
Andy Finkenstadt <afinkenstadt@zynga.com>  
Andy Lindeman <andy@lindeman.io>  
Andy Maloney <asmaloney@gmail.com>  
Andy Pan <panjf2000@gmail.com> <panjf2000@golangcn.org> <i@andypan.me>  
Andy Walker <walkeraj@gmail.com>  
Andy Wang <cbeuw.andy@gmail.com>  
Andy Williams <andy@andy.xyz>  
Andy Zhao <andyzhao@google.com>  
Andzej Maciusovic <andzej.maciusovic@gmail.com>  
Anfernee Yongkun Gui <anfernee.gui@gmail.com>  
Angelo Bulfone <mbulfone@gmail.com>  
Anh Hai Trinh <anh.hai.trinh@gmail.com>  
Anit Gandhi <anitgandhi@gmail.com>  
Ankit Goyal <ankit3goyal@gmail.com>  
Anmol Sethi <anmol@aubble.com>  
Annirudh Prasad <annirudh@wandb.com>  
Anschel Schaffer-Cohen <anschelse@gmail.com>  
Anthony Alves <cvballa3g0@gmail.com>  
Anthony Canino <anthony.canino1@gmail.com>  
Anthony Eufemio <anthony.eufemio@gmail.com>  
Anthony Fok <foka@debian.org>  
Anthony Martin <alidity@pbrane.org>  
Anthony Sottile <asottile@umich.edu>  
Anthony Starks  
<ajstarks@gmail.com>  
Anthony Voutas <voutasaurus@gmail.com>  
Anthony Woods <awoods@raintank.io>  
Antoine GIRARD <sapk@sapk.fr>  
Antoine Martin <antoine97.martin@gmail.com>  
Anton Gyllenberg <anton@iki.fi>  
Anton Kuklin <anton.a.kuklin@gmail.com>  
Antonin Amand <antonin.amand@gmail.com>  
Antonio Antelo <aantelov87@gmail.com>  
Antonio Bibiano <antbbn@gmail.com>  
Antonio Garcia <garcia.olais@gmail.com>

Antonio Huete Jimenez <tuxillo@quantumachine.net>  
Antonio Murdaca <runcom@redhat.com>  
Antonio Ojea <antonio.ojea.garcia@gmail.com>  
Antonio Troina <thoeni@gmail.com>  
Anze Kolar <me@akolar.com>  
Aofei Sheng <aofei@aofeisheng.com>  
Apisak Darakananda <pongad@gmail.com>  
Aram Hvrneanu <aram@mgk.ro>  
Araragi Hokuto <kanseihonbucho@protonmail.com>  
Arash Bina <arash@arash.io>  
Archana Ravindar <aravind5@in.ibm.com>  
Arda Gl <ardaguclu@gmail.com>  
Areski Belaid <areski@gmail.com>  
Ariel Mashraki <ariel@mashraki.co.il>  
Arkadi Pyuro <arkadi@google.com>  
Arlo Breault <arlolra@gmail.com>  
Arnaud Ysmal <arnaud.ysmal@gmail.com>  
Arne  
Hormann <arnehormann@gmail.com>  
Arnout Engelen <arnout@bzst.net>  
Aron Nopanen <aron.nopanen@gmail.com>  
Arran Walker <arran.walker@fiveturns.org>  
Artem Alekseev <artem.alekseev@intel.com>  
Artem Khvastunov <artem.khvastunov@jetbrains.com>  
Artem Kolin <artemkaxboy@gmail.com>  
Arthur Fabre <arthur@arthurfabre.com>  
Arthur Khashaev <arthur@khashaev.ru>  
Artur M. Wolff <artur.m.wolff@gmail.com>  
Artyom Pervukhin <artyom.pervukhin@gmail.com>  
Arvindh Rajesh Tamilmani <art@a-30.net>  
Ashish Bhate <ab.listsubs@gmail.com>  
Ashish Gandhi <ag@ashishgandhi.org>  
Asim Shankar <asimshankar@gmail.com>  
Assel Meher <asselmehar@gmail.com>  
Atin Malaviya <amalaviy@akamai.com>  
Ato Araki <ato.araki@gmail.com>  
Atsushi Toyama <atsushi.tohyama.160.333@gmail.com>  
Audrey Lim <audreylh@gmail.com>  
Audrius Butkevicius <audrius.butkevicius@gmail.com>  
Augusto Roman <aroman@gmail.com>  
Aulus Egnatius Varialus <varialus@gmail.com>  
Aurlien Rainone <aurelien.rainone@gmail.com>  
Aurlio A. Heckert <aurium@gmail.com>  
Austin  
Clements <austin@google.com> <aclements@csail.mit.edu>  
Avi Flax <avi@timehop.com>  
Aviv Klasquin Komissar <avivklas@gmail.com>  
awaw fumin <awawfumin@gmail.com>



Awn Umar <awn@cryptolosophy.io>  
Axel Wagner <axel.wagner.hh@googlemail.com>  
Ayan George <ayan@ayan.net>  
Ayanamist Yang <ayanamist@gmail.com>  
Ayke van Laethem <aykevanlaethem@gmail.com>  
Aymerick Jhanne <aymerick@jehanne.org>  
Ayzat Sadykov <ayzat.ziko.93@gmail.com>  
Azat Kaumov <kaumov.a.r@gmail.com>  
Baiju Muthukadan <baiju.m.mail@gmail.com>  
Balaram Makam <bmakam.qdt@qualcommdatacenter.com>  
Balazs Lecz <leczb@google.com>  
Baokun Lee <nototon@gmail.com> <bk@golangcn.org>  
Barnaby Keene <accounts@southcla.ws>  
Bartomiej Klimczak <bartlomiej.klimczak88@gmail.com>  
Bartosz Grzybowski <melkorm@gmail.com>  
Bartosz Oler <brtsz@google.com>  
Bassam Ojeil <bojeil@google.com>  
Bastian Ike <bastian.ike@gmail.com>  
Ben Burkert <ben@benburkert.com>  
Ben Cartwright-Cox <Ben@Benjojo.co.uk>  
Ben Eitzen <eitzenb@golang.org>  
Ben Fried <ben.fried@gmail.com>  
Ben  
Haines <bhainesva@gmail.com>  
Ben Hoyt <benhoyt@gmail.com>  
Ben Hutchings <ben.hutchings@essensium.com>  
Ben Kraft <benkraft@khanacademy.org>  
Ben Laurie <ben@links.org> <benl@google.com>  
Ben Lubar <ben.lubar@gmail.com>  
Ben Lynn <benlynn@gmail.com>  
Ben Olive <sionide21@gmail.com>  
Ben Schwartz <bemasc@google.com>  
Ben Shi <powerman1st@163.com>  
Ben Toews <mastahyeti@gmail.com>  
Benjamin Barenblat <bbaren@google.com>  
Benjamin Black <b@b3k.us>  
Benjamin Cable <cable.benjamin@gmail.com>  
Benjamin Hsieh <tanookiben@users.noreply.github.com>  
Benjamin Peterson <benjamin@python.org>  
Benjamin Prosnitz <bprosnitz@google.com>  
Benjamin Wester <bwester@squareup.com>  
Benjamin Wuethrich <benjamin.wuethrich@gmail.com>  
Benny Siegert <bsiegert@gmail.com>  
Benoit Sigoure <tsunanet@gmail.com>  
Berengar Lehr <Berengar.Lehr@gmx.de>  
Berkant Ipek <41230766+0xbkt@users.noreply.github.com>  
Beth Brown <ecbrown@google.com>  
Bharath Kumar Uppala <uppala.bharath@gmail.com>

Bharath Thiruveedula <tbharath91@gmail.com>  
Bhavin  
Gandhi <bhavin7392@gmail.com>  
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>  
Bill O'Farrell <billo@ca.ibm.com>  
Bill Prin <waprin@google.com>  
Bill Thiede <couchmoney@gmail.com>  
Bill Zissimopoulos <billziss@navimatics.com>  
Billie Harold Cleek <bhcleek@gmail.com>  
Billy Lynch <wlynch@google.com>  
Billy Zaelani Malik <m.billyzaelani@gmail.com>  
Bjrn Erik Pedersen <bjorn.erik.pedersen@gmail.com>  
Bjorn Tillenius <bjorn@tillenius.me>  
Bjorn Tipling <bjorn.tipling@gmail.com>  
Blain Smith <rebelgeek@blainsmith.com>  
Blake Gentry <blakesgentry@gmail.com>  
Blake Mesdag <blakemesdag@gmail.com>  
Blake Mizerany <blake.mizerany@gmail.com>  
Blixt <me@blixt.nyc>  
Bob Briski <rbriski@gmail.com>  
Bob McNaughton <bobmcn@gmail.com>  
Bob Potter <bobby.potter@gmail.com>  
Bobby DeSimone <bobbydesimone@gmail.com>  
Bobby Powers <bobbypowers@gmail.com>  
Boqin Qin <bobbqqin@gmail.com>  
Boris Nagaev <nagaev@google.com>  
Borja Clemente <borja.clemente@gmail.com>  
Boshi Lian <bolian@microsoft.com>  
Brad Burch  
<brad.burch@gmail.com>  
Brad Erickson <bderickson@gmail.com>  
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>  
Brad Garcia <bgarcia@golang.org>  
Brad Jones <rbjones@google.com>  
Brad Morgan <brad@morgabra.com>  
Brad Whitaker <bwhitaker@fastly.com>  
Braden Bassingthwaite <bbassingthwaite@vendasta.com>  
Bradford Lamson-Scribner <brad.lamson@gmail.com>  
Bradley Falzon <brad@teambrad.net>  
Brady Catherman <brady@gmail.com>  
Brady Sullivan <brady@bsull.com>  
Branden J. Brown <zephyrtronium@gmail.com>  
Brandon Bennett <bbennett@fb.com>  
Brandon Gilmore <varz@google.com>  
Brandon Philips <brandon@ifup.org>  
Brandon Ryan <bjryan19@gmail.com>  
Brave Cow <rsr715@gmail.com>  
Brayden Cloud <bcloud@google.com>

Brendan Daniel Tracey <tracey.brendan@gmail.com>  
Brendan O'Dea <bod@golang.org>  
Brett Cannon <bcannon@gmail.com>  
Brett Merrill <brett.j.merrill94@gmail.com>  
Brian Dellisanti <briandellisanti@gmail.com>  
Brian Downs <brian.downs@gmail.com>  
Brian Falk <falk@logicparty.org>  
Brian G. Merrell <bgmerrell@gmail.com>  
Brian  
Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>  
Brian Kennedy <btkennedy@gmail.com>  
Brian Kessler <brian.m.kessler@gmail.com>  
Brian Ketelsen <bketelsen@gmail.com>  
Brian Slesinsky <skybrian@google.com>  
Brian Smith <ohohvi@gmail.com>  
Brian Starke <brian.starke@gmail.com>  
Bruce Huang <helbingxxx@gmail.com>  
Bryan Alexander <Kozical@msn.com>  
Bryan Boreham <bjboreham@gmail.com>  
Bryan C. Mills <bcmills@google.com>  
Bryan Chan <bryan.chan@ca.ibm.com>  
Bryan Ford <brynosaurus@gmail.com>  
Bryan Heden <b.heden@gmail.com>  
Bulat Gaifullin <gaifullinbf@gmail.com>  
Burak Guven <bguven@gmail.com>  
Caine Tighe <arctanofyourface@gmail.com>  
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>  
Caleb Martinez <accounts@calebmartinez.com>  
Caleb Spare <cespare@gmail.com>  
Carl Chatfield <carlchatfield@gmail.com>  
Carl Henrik Lunde <chlunde@ifi.uio.no>  
Carl Jackson <carl@stripe.com>  
Carl Johnson <me@carlmjohnson.net>  
Carl Mastrangelo <notcarl@google.com>  
Carl Menezes  
<carleeto@gmail.com>  
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>  
Carlisia Campos <carlisia@grokkingtech.io>  
Carlo Alberto Ferraris <cafxx@strayorange.com>  
Carlos Alexandro Becker <caarlos0@gmail.com>  
Carlos Amedee <carlos@golang.org>  
Carlos Castillo <cookieo9@gmail.com>  
Carlos Cirello <uldericofilho@gmail.com>  
Carlos Eduardo <me@carlosedp.com>  
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>  
Carlos Iriarte <ciriarte@gmail.com>  
Carlos Souza <carloshrsouza@gmail.com>  
Carolyn Van Slyck <me@carolynvanslyck.com>

Carrie Bynon <cbynon@gmail.com>  
Carson Hoffman <c@rsonhoffman.com>  
Cary Hull <chull@google.com>  
Case Nelson <case.nelson@gmail.com>  
Casey Callendrello <squeed@gmail.com>  
Casey Marshall <casey.marshall@gmail.com>  
Catalin Nicutar <cnicutar@google.com>  
Catalin Patulea <catalinp@google.com>  
Cathal O'Callaghan <cathalsocallaghan@gmail.com>  
Cedric Staub <cs@squareup.com>  
Cezar S Espinola <cezarsa@gmail.com>  
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>  
ChaiShushan <chaishushan@gmail.com>  
Changkun  
Ou <hi@changkun.us>  
Channing Kimble-Brown <channing@golang.org>  
Chao Xu <xuchao@google.com>  
Chaoqun Han <hansscv@gmail.com>  
Charles Fenwick Elliott <Charles@FenwickElliott.io>  
Charles Kenney <charlesc.kenney@gmail.com>  
Charles L. Dorian <cldorian@gmail.com>  
Charles Lee <zombie.fml@gmail.com>  
Charles Weill <weill@google.com>  
Charlie Getzen <charlie@bolt.com>  
Charlie Moog <moogcharlie@gmail.com>  
Charlotte Brandhorst-Satzkorn <catzkorn@gmail.com>  
Chauncy Cullitan <chauncyc@google.com>  
Chen Zhidong <njutczd@gmail.com>  
Chen Zhihan <energiehund@gmail.com>  
Cheng Wang <>wangchengiscool@gmail.com>  
Cherry Mui <cherryyz@google.com>  
Chew Choon Keat <choonkeat@gmail.com>  
Chia-Chi Hsu <wuchi5457@gmail.com>  
Chiawen Chen <golopot@gmail.com>  
Chirag Sukhala <cchirag77@gmail.com>  
Cholerae Hu <choleraehyq@gmail.com>  
Chotepud Teo <AlexRouSg@users.noreply.github.com>  
Chressie Himpel <chressie@google.com>  
Chris Ball <chris@printf.net>  
Chris Biscardi <chris@christopherbiscardi.com>  
Chris  
Broadfoot <cbro@golang.org>  
Chris Dollin <ehog.hedge@gmail.com>  
Chris Farmiloe <chrisfarms@gmail.com>  
Chris Hines <chris.cs.guy@gmail.com>  
Chris Howey <howeyc@gmail.com>  
Chris Hundt <hundt@google.com>  
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>

Chris Kastorff <encryptio@gmail.com>  
Chris Le Roy <brompwnie@users.noreply.github.com>  
Chris Lennert <calennert@gmail.com>  
Chris Liles <caveryliles@gmail.com>  
Chris Manghane <cmang@golang.org>  
Chris Marchesi <chrism@vanclueverttech.com>  
Chris McGee <sirnewton\_01@yahoo.ca> <newton688@gmail.com>  
Chris Raynor <raynor@google.com>  
Chris Roche <rodaine@gmail.com>  
Chris Smith <chrsmith@users.noreply.github.com>  
Chris Stockton <chrisstocktonaz@gmail.com>  
Chris Taylor <taylorza@gmail.com>  
Chris Waldon <christopher.waldon.dev@gmail.com>  
Chris Zou <chriszou@ca.ibm.com>  
Christian Alexander <christian@linux.com>  
Christian Couder <chriscool@tuxfamily.org>  
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>  
Christian Muehlhaeuser <muesli@gmail.com>  
Christian  
Pellegrin <chri@evolware.org>  
Christian R. Petrin <christianpetrin@gmail.com>  
Christian Svensson <blue@cmd.nu>  
Christine Hansmann <chhansmann@gmail.com>  
Christoffer Buchholz <christoffer.buchholz@gmail.com>  
Christoph Blecker <admin@toph.ca>  
Christoph Hack <christoph@tux21b.org>  
Christopher Cahoon <chris.cahoon@gmail.com>  
Christopher Guiney <chris@guiney.net>  
Christopher Henderson <chris@chenderson.org>  
Christopher Hlubek <christopher.hlubek@networkteam.com>  
Christopher Koch <chrisko@google.com>  
Christopher Loessl <cloessl+github@gmail.com>  
Christopher Nelson <nadiasvertex@gmail.com>  
Christopher Nielsen <m4dh4tt3r@gmail.com>  
Christopher Redden <christopher.redden@gmail.com>  
Christopher Swenson <cswenson@google.com>  
Christopher Thomas <53317512+chrissthomas@users.noreply.github.com>  
Christopher Wedgwood <cw@f00f.org>  
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>  
Christy Perez <christy@linux.vnet.ibm.com>  
CL Sung <clsung@gmail.com> <cl\_sung@htc.com>  
Clment  
Chigot <clement.chigot@atos.net>  
Clement Skau <clementskau@gmail.com>  
Clint J. Edwards <clint.j.edwards@gmail.com>  
Cody Oss <the.cody.oss@gmail.com>  
Colby Ranger <cranger@google.com>  
Colin Arnott <colin@urandom.co.uk>

Colin Cross <ccross@android.com>  
Colin Edwards <colin@recursivepenguin.com>  
Colin Kennedy <moshen.colin@gmail.com>  
Colin Nelson <colnnelson@google.com>  
Colin Rice <clr@google.com>  
Conrad Irwin <conrad.irwin@gmail.com>  
Conrad Meyer <cemeyer@cs.washington.edu>  
Conrado Gouvea <conradopl@gmail.com>  
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>  
Corey Thomasson <cthom.lists@gmail.com>  
Corne van der Plas <vdplas@gmail.com>  
Cosmos Nicolaou <cnicolaou@google.com>  
Costin Chirvasuta <ctin@google.com>  
Craig Citro <craigcitro@google.com>  
Cristian Staretu <unclejacksons@gmail.com>  
Cristo Garca <cgg.code@gmail.com>  
cui fliter <imcusg@gmail.com>  
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>  
Cuong Manh Le <cuong@orijtech.com>  
Curtis La Graff <curtis@lagraff.me>  
Cyrill  
Schumacher <cyrill@schumacher.fm>  
Dai Jie <gzdaijie@gmail.com>  
Dai Wentao <dwt136@gmail.com>  
Daisuke Fujita <dtanshi45@gmail.com>  
Daisuke Suzuki <daisuzu@gmail.com>  
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>  
Damian Gryski <dgryski@gmail.com>  
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>  
Damien Mathieu <42@dmathieu.com>  
Damien Neil <dneil@google.com>  
Damien Tournoud <damien@platform.sh>  
Dan Ballard <dan@mindstab.net>  
Dan Caddigan <goldcaddy77@gmail.com>  
Dan Callahan <dan.callahan@gmail.com>  
Dan Harrington <harringtond@google.com>  
Dan Jacques <dnj@google.com>  
Dan Johnson <computerdruidd@google.com>  
Dan McArdle <dmcardle@google.com>  
Dan Peterson <dpiddy@gmail.com>  
Dan Pupius <dan@medium.com>  
Dan Scales <danscales@google.com>  
Dan Sinclair <dan.sinclair@gmail.com>  
Daniel Cohen <dcohen@gatech.edu>  
Daniel Cormier <danielc@knowbe4.com>  
Danil de Kok <me@danieldk.eu>  
Daniel Fleischman <danielfleischman@gmail.com>  
Daniel Ingram <ingramds@appstate.edu>

Daniel  
Johansson <dajo2002@gmail.com>  
Daniel Kerwin <d.kerwin@gini.net>  
Daniel Kessler <dkess@google.com>  
Daniel Krech <eikeon@eikeon.com>  
Daniel Kumor <rdkumor@gmail.com>  
Daniel Langner <s8572327@gmail.com>  
Daniel Lidn <daniel.liden.87@gmail.com>  
Daniel Lublin <daniel@lublin.se>  
Daniel Mangum <georgedanielmangum@gmail.com>  
Daniel Marshall <daniel.marshall2@ibm.com>  
Daniel Mart <mvdan@mvdan.cc>  
Daniel McCarney <cpu@letsencrypt.org>  
Daniel Morsing <daniel.morsing@gmail.com>  
Daniel Nadasi <dnadasi@google.com>  
Daniel Nephin <dnephin@gmail.com>  
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>  
Daniel S. Fava <danielsfava@gmail.com>  
Daniel Skinner <daniel@dasa.cc>  
Daniel Speichert <daniel@speichert.pl>  
Daniel Theophanes <kardianos@gmail.com>  
Daniel Upton <daniel@floppy.co>  
Daniela Petruzalek <daniela.petruzalek@gmail.com>  
Danish Dua <danishdua@google.com>  
Danish Prakash <grafitykoncept@gmail.com>  
Danny Rosseau <daniel.rosseau@gmail.com>  
Daria Kolistratova <daria.kolistratova@intel.com>  
Darien  
Raymond <admin@v2ray.com>  
Darren Elwood <darren@textnode.com>  
Darren Grant <darren.e.grant@gmail.com>  
Darren McCleary <darren.rmc@gmail.com>  
Darshan Parajuli <parajulidarshan@gmail.com>  
Datong Sun <dndx@idndx.com>  
Dave Borowitz <dborowitz@google.com>  
Dave Bort <dbort@golang.org>  
Dave Cheney <dave@cheney.net>  
Dave Day <djd@golang.org>  
Dave Grijalva <dgrijalva@ngmoco.com>  
Dave MacFarlane <driusan@gmail.com>  
Dave Pifke <dave@pifke.org>  
Dave Russell <forfuncsake@gmail.com>  
David Anderson <danderson@google.com>  
David Barnett <dbarnett@google.com>  
David Benjamin <davidben@google.com>  
David Black <dblack@atlassian.com>  
David Bond <davidsbond93@gmail.com>  
David Brophy <dave@brophy.uk>

David Brgin <676c7473@gmail.com>  
David Calavera <david.calavera@gmail.com>  
David Carlier <devnexen@gmail.com>  
David Carter <fresco.raja@gmail.com>  
David Chase <drchase@google.com>  
David Covert <davidhcovert@gmail.com>  
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>  
David  
du Colombier <0intro@gmail.com>  
David Finkel <david.finkel@gmail.com>  
David Forsythe <dforsythe@gmail.com>  
David G. Andersen <dave.andersen@gmail.com>  
David Glasser <glasser@meteor.com>  
David Golden <david@autopragmatic.com>  
David Heuschmann <heuschmann.d@gmail.com>  
David Howden <dhowden@gmail.com>  
David Hubbard <dsp@google.com>  
David Jakob Fritz <david.jakob.fritz@gmail.com>  
David Jones <dxjones@gmail.com>  
David Lazar <lazard@golang.org>  
David Leon Gil <coruus@gmail.com>  
David McLeish <davemc@google.com>  
David Ndungu <dnjuguna@gmail.com>  
David NewHamlet <david@newhamlet.com>  
David Presotto <presotto@gmail.com>  
David Qu <davidqu12345@gmail.com>  
David R. Jenni <david.r.jenni@gmail.com>  
David Sansome <me@davidsansome.com>  
David Stainton <dstainton415@gmail.com>  
David Symonds <dsymonds@golang.org>  
David Thomas <davidthomas426@gmail.com>  
David Timm <dtimm@pivotal.io>  
David Titarenco <david.titarenco@gmail.com>  
David Tolpin <david.tolpin@gmail.com>  
David Url <david@urld.io>  
David  
Volquartz Lebech <david@lebech.info>  
David Wimmer <davidlwimmer@gmail.com>  
Davies Liu <davies.liu@gmail.com>  
Davor Kapsa <davor.kapsa@gmail.com>  
Dean Eigenmann <7621705+decanus@users.noreply.github.com>  
Dean Prichard <dean.prichard@gmail.com>  
Deepak Jois <deepak.jois@gmail.com>  
Deepak S <deepakspavoodath@gmail.com>  
Denis Bernard <db047h@gmail.com>  
Denis Brandolini <denis.brandolini@gmail.com>  
Denis Isaev <idenx@yandex.com>  
Denis Nagorny <denis.nagorny@intel.com>



Dennis Kuhnert <mail.kuhnert@gmail.com>  
Denys Honsiorovskyi <honsiorovskyi@gmail.com>  
Denys Smirnov <denis.smirnov.91@gmail.com>  
Derek Buitenhuis <derek.buitenhuis@gmail.com>  
Derek Che <drc@yahoo-inc.com>  
Derek McGowan <derek@mcgstyle.net>  
Derek Parker <parkerderek86@gmail.com>  
Derek Phan <derekphan94@gmail.com>  
Derek Shockey <derek.shockey@gmail.com>  
Dev Ojha <dojha12@gmail.com>  
Dev Zhoujun <dev.zhoujun@gmail.com>  
Devon H. O'Dell <devon.odell@gmail.com>  
Dhaivat Pandit <dhaivatpandit@gmail.com>  
Dhananjay Nakrani <dhananjayn@google.com>  
Dhiru  
Kholia <dhiru.kholia@gmail.com>  
Dhruvdudd Jadhav <dhrvdudd.jadhav@gmail.com>  
Di Xiao <dixiao@google.com>  
Didier Spezia <didier.06@gmail.com>  
Diego Medina <fmpwizard@gmail.com>  
Diego Siqueira <diego9889@gmail.com>  
Dieter Plaetinck <dieter@raintank.io>  
Dilyn Corner <dilyn.corner@gmail.com>  
Dimitri Sokolyuk <sokolyuk@gmail.com>  
Dimitri Tcaciuc <dtcaciuc@gmail.com>  
Dina Garmash <dgrmsh@gmail.com>  
Diogo Pinela <diogoid7400@gmail.com>  
Dirk Gadsden <dirk@esherido.com>  
Diwaker Gupta <diwakergupta@gmail.com>  
Dmitri Goutnik <dgoutnik@gmail.com>  
Dmitri Popov <operator@cv.dp-net.com>  
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>  
Dmitrii Okunev <xaionaro@gmail.com>  
Dmitriy Cherchenko <dcherchenko@gmail.com>  
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>  
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>  
Dmitriy Vyukov <dvyukov@google.com>  
Dmitry Chestnykh <dchest@gmail.com>  
Dmitry Doroginin <doroginin@gmail.com>  
Dmitry Mottl <dmitry.mottl@gmail.com>  
Dmitry  
Neverov <dmitry.neverov@gmail.com>  
Dmitry Savintsev <dsavints@gmail.com>  
Dmitry Yakunin <nonamezeil@gmail.com>  
Dmytro Shynkevych <dm.shynk@gmail.com>  
Doga Fincan <doga@icloud.com>  
Domas Tamauskas <puerdomus@gmail.com>  
Domen Ipavec <domen@ipavec.net>

Dominic Della Valle <ddvpublic@Gmail.com>  
Dominic Green <dominicgreen1@gmail.com>  
Dominik Honnef <dominik.honnef@gmail.com>  
Dominik Vogt <vogt@linux.vnet.ibm.com>  
Don Byington <don@dbyington.com>  
Donald Huang <don.hcd@gmail.com>  
Dong-hee Na <donghee.na92@gmail.com>  
Donovan Hide <donovanhide@gmail.com>  
Doug Anderson <douga@google.com>  
Doug Fawley <dfawley@google.com>  
Douglas Danger Manley <doug.manley@gmail.com>  
Drew Flower <drewvanstone@gmail.com>  
Drew Hintz <adhintz@google.com>  
Drew Richardson <drewrichardson@gmail.com>  
Duco van Amstel <duco.vanamstel@gmail.com>  
Duncan Holm <mail@frou.org>  
Dustin Carlino <dcarlino@google.com>  
Dustin Herbison <djherbis@gmail.com>  
Dustin Long <dustmop@gmail.com>  
Dustin Sallings <dsallings@gmail.com>  
Dustin  
Shields-Cloues <dcloues@gmail.com>  
Dustin Spicuzza <dustin.spicuzza@gmail.com>  
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>  
Dylan Waits <dylan@waits.io>  
Ed Schouten <ed@nuxi.nl>  
Edan Bedrik <3d4nb3@gmail.com>  
Eddie Scholtz <escholtz@google.com>  
Eden Li <eden.li@gmail.com>  
Eduard Urbach <e.urbach@gmail.com>  
Eduardo Ramalho <eduardo.ramalho@gmail.com>  
Eduardo Villaseor <evillasrmx@gmail.com>  
Edward Muller <edwardam@interlix.com>  
Egon Elbre <egonelbre@gmail.com>  
Ehren Kret <ehren.kret@gmail.com>  
Eitan Adler <lists@eitanadler.com>  
Eivind Uggedal <eivind@uggedal.com>  
El Mostafa Idrassi <el.mostafa.idrassi@gmail.com>  
Elbert Fliek <efliek@gmail.com>  
Eldar Rakhimberdin <ibeono@gmail.com>  
Elena Grahovac <elena@grahovac.me>  
Eli Bendersky <eliben@google.com>  
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>  
Elliot Morrison-Reed <elliottmr@gmail.com>  
Ellison Leao <ellisonleao@gmail.com>  
Elvina Yakubova <elvinayakubova@gmail.com>  
Emerson Lin <linyintor@gmail.com>  
Emil Bektimirov <lefelys@gmail.com>

Emil

Hessman <emil@hessman.se>

Emil Mursalimov <mursalimovemeel@gmail.com>

Emilien Kenler <hello@emilienkenler.com>

Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>

Emreacan Bati <emreacanbati@gmail.com>

Eno Compton <enocom@google.com>

Eoghan Sherry <ejsherry@gmail.com>

Eric Biggers <ebiggers@google.com>

Eric Brown <browne@vmware.com>

Eric Chiang <eric.chiang.m@gmail.com>

Eric Clark <zerohp@gmail.com>

Eric Daniels <eric@erdaniels.com>

Eric Engestrom <eric@engestrom.ch>

Eric Garrido <ekg@google.com>

Eric Koleda <ekoleda+devrel@google.com>

Eric Lagergren <ericscottlagergren@gmail.com>

Eric Milliken <emilliken@gmail.com>

Eric Pauley <eric@pauley.me>

Eric Ponce <tricokun@gmail.com>

Eric Rescorla <ekr@rtfm.com>

Eric Roshan-Eisner <eric.d.eisner@gmail.com>

Eric Rutherford <erutherford@gmail.com>

Eric Rykwalder <e.rykwalder@gmail.com>

Eric Wang <>wangchaogo1990@gmail.com>

Erick Tryzelaar <etryzelaar@google.com>

Erik Aigner <aigner.erik@gmail.com>

Erik Dubbelboer <erik@dubbelboer.com>

Erik

St. Martin <alakriti@gmail.com>

Erik Staab <estaab@google.com>

Erik Westrup <erik.westrup@gmail.com>

Erin Masatsugu <erin.masatsugu@gmail.com>

Ernest Chiang <ernest\_chiang@htc.com>

Erwin Oegema <blablaechthema@hotmail.com>

Esko Luontola <esko.luontola@gmail.com>

Ethan Anderson <eanderson@atlassian.com>

Ethan Burns <eaburns@google.com>

Ethan Hur <ethan0311@gmail.com>

Ethan Miller <eamiller@us.ibm.com>

Ethan Reesor <ethan.reesor@gmail.com>

Euan Kemp <euank@euank.com>

Eugene Formanenko <mo4islona@gmail.com>

Eugene Kalinin <e.v.kalinin@gmail.com>

Evan Broder <evan@stripe.com>

Evan Brown <evanbrown@google.com>

Evan Digby <evandigby@gmail.com>

Evan Hicks <evan.hicks2@gmail.com>

Evan Jones <ej@evanjones.ca>  
Evan Klitzke <evan@eklitzke.org>  
Evan Kroske <evankroske@google.com>  
Evan Martin <evan.martin@gmail.com>  
Evan Phoenix <evan@phx.io>  
Evan Shaw <chickencha@gmail.com>  
Evgeniy Kulikov <tuxuls@gmail.com>  
Evgeniy Polyakov <zbr@iorem.net>  
Ewan Chou <coocood@gmail.com>  
Ewan Valentine  
<ewan.valentine89@gmail.com>  
Eyal Posener <posener@gmail.com>  
F. Talha Altnel <talhaaltnel@hotmail.com>  
Fabian Wickborn <fabian@wickborn.net>  
Fabian Zarembo <fabian@youreemail.eu>  
Fabio Falzoi <fabio.falzoi84@gmail.com>  
Fabrizio Milo <mistobaan@gmail.com>  
Faiyaz Ahmed <ahmedf@vmware.com>  
Fan Hongjian <fan.howard@gmail.com>  
Fangming Fang <fangming.fang@arm.com>  
Fannie Zhang <fannie.zhang@arm.com>  
Fatih Arslan <fatih@arslan.io>  
Fazal Majid <majid@apsalar.com>  
Fazlul Shahriar <fshahriar@gmail.com>  
Federico Bond <federicobond@gmail.com>  
Federico Guerinoni <guerinoni.federico@gmail.com>  
Federico Simoncelli <fsimonce@redhat.com>  
Fedor Indutny <fedor@indutny.com>  
Fedor Korotkiy <dartslon@gmail.com>  
Felipe Oliveira <felipeweb.programador@gmail.com>  
Felix Bnemann <Felix.Buenemann@gmail.com>  
Felix Cornelius <9767036+fcornelius@users.noreply.github.com>  
Felix Geisendrfer <haimuiba@gmail.com>  
Felix Kollmann <fk@konsorten.de>  
Ferenc Szabo <frncmx@gmail.com>  
Fernandez Ludovic <lfernandez.dev@gmail.com>  
Filip  
Gruszczyski <gruszczyski@gmail.com>  
Filip Haglund <drathier@users.noreply.github.com>  
Filip Stanis <fstanis@google.com>  
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>  
Firmansyah Adiputra <frm.adiputra@gmail.com>  
Florian Forster <octo@google.com>  
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>  
Florian Weimer <fw@deneb.enyo.de>  
Florin Papa <fpapa@google.com>  
Florin Patan <florinpatan@gmail.com>  
Folke Behrens <folke@google.com>

Ford Hurley <ford.hurley@gmail.com>  
Forest Johnson <forest.n.johnson@gmail.com>  
Francesc Campoy <campoy@golang.org>  
Francesco Guardiani <francescoguard@gmail.com>  
Francesco Renzi <rentziass@gmail.com>  
Francisco Claude <fclaude@recoded.cl>  
Francisco Rojas <francisco.rojas.gallegos@gmail.com>  
Francisco Souza <franciscossouza@gmail.com>  
Frank Chiarulli Jr <frank@frankchiarulli.com>  
Frank Schroeder <frank.schroeder@gmail.com>  
Frank Somers <fsomers@arista.com>  
Frederic Guillot <frederic.guillot@gmail.com>  
Frederick  
Kelly Mayle III <frederickmayle@gmail.com>  
Frederik Ring <frederik.ring@gmail.com>  
Frederik Zipp <fzipp@gmx.de>  
Frediano Ziglio <freddy77@gmail.com>  
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>  
Fredrik Forsmo <fredrik.forsmo@gmail.com>  
Fredrik Wallgren <fredrik.wallgren@gmail.com>  
Frew Schmidt <github@frew.co>  
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>  
Frits van Bommel <fvbommel@gmail.com>  
Fujimoto Kyosuke <kyoro.f@gmail.com>  
Fumitoshi Ukai <ukai@google.com>  
G. Hussain Chinoy <ghchinoy@gmail.com>  
Gaal Yahas <gaal@google.com>  
Gabrel Arthr Ptursson <gabriel@system.is>  
Gabriel Aszalos <gabriel.aszalos@gmail.com>  
Gabriel Guzman <gabe.guzman@gmail.com>  
Gabriel Nelle <tehsphinx@web.de>  
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>  
Gabriel Rosenhouse <rosenhouse@gmail.com>  
Gabriel Russell <gabriel.russell@gmail.com>  
Gabriel Vasile <gabriel.vasile0793@gmail.com>  
Gareth Paul Jones <gpj@foursquare.com>  
Garret Kelly <gdk@google.com>  
Garrick  
Evans <garrick@google.com>  
Garry McNulty <garrmcnu@gmail.com>  
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>  
Gary Elliott <garyelliott@google.com>  
Gaurav Singh <gaurav1086@gmail.com>  
Gaurish Sharma <contact@gaurishsharma.com>  
Gautham Thambidorai <gautham.dorai@gmail.com>  
Gauthier Jolly <gauthier.jolly@gmail.com>  
Gawen Arab <gawen.arab@c.zen.ly>  
Geert-Johan Riemer <gjr19912@gmail.com>

Genevieve Luyt <genevieve.luyt@gmail.com>  
Gengliang Wang <ltnwgl@gmail.com>  
Geoff Berry <gberry.qdt@qualcommdatacenter.com>  
Geoffroy Lorieux <lorieux.g@gmail.com>  
Geon Kim <geon0250@gmail.com>  
Georg Reinke <guelfey@gmail.com>  
George Gkirtsou <ggirtsou@gmail.com>  
George Hartzell <hartzell@alerce.com>  
George Looshch <looshch@loosh.ch>  
George Shammas <george@shamm.as> <georgyo@gmail.com>  
George Tsilias <tsiliasg@gmail.com>  
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>  
Gerasimos Dimitriadis <gedimitr@gmail.com>  
Gergely Brautigam <skarlso777@gmail.com>  
Gernot Vormayr <gvormayr@gmail.com>  
Gert  
Cuykens <gert.cuykens@gmail.com>  
Getulio Snchez <valentin2507@gmail.com>  
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>  
Gianguido Sora` <g.sora4@gmail.com>  
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>  
Giles Lean <giles.lean@pobox.com>  
Giovanni Bajo <rasky@develer.com>  
GitHub User @180909 (70465953) <734461790@qq.com>  
GitHub User @6543 (24977596) <6543@obermui.de>  
GitHub User @aca (50316549) <acadx0@gmail.com>  
GitHub User @ajnrp (1688456) <ajnrp@users.noreply.github.com>  
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>  
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>  
GitHub User @andig (184815) <cpuidle@gmx.de>  
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>  
GitHub User @as (8127015) <as.utf8@gmail.com>  
GitHub User @bakape (7851952) <bakape@gmail.com>  
GitHub User @bgadrian (830001) <aditza8@gmail.com>  
GitHub User @bontequero (2674999) <bontequero@gmail.com>  
GitHub User @cch123 (384546) <buaa.cch@gmail.com>  
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>  
GitHub  
User @chanxuehong (3416908) <chanxuehong@gmail.com>  
GitHub User @Cluas (10056928) <Cluas@live.cn>  
GitHub User @cncal (23520240) <flycalvin@qq.com>  
GitHub User @DQNEO (188741) <dqneo@gmail.com>  
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>  
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>  
GitHub User @EndlessCheng (7086966) <loli.con@qq.com>  
GitHub User @erifan (31343225) <eric.fang@arm.com>  
GitHub User @esell (9735165) <eujon.sellers@gmail.com>  
GitHub User @fatedier (7346661) <fatedier@gmail.com>

GitHub User @frennie (6499251) <mail@rhab.de>  
GitHub User @geedchin (11672310) <geedchin@gmail.com>  
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>  
GitHub User @Gusted (25481501) <williamzjl7@hotmail.com>  
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>  
GitHub User @hitzhangjie (3725760) <hit.zhangjie@gmail.com>  
GitHub User @hkhere (33268704) <33268704+hkhere@users.noreply.github.com>  
GitHub User  
@hopehook (7326168) <hopehook.com@gmail.com>  
GitHub User @hqpk0 (13887251) <whaibin01@hotmail.com>  
GitHub User @Illirgway (5428603) <illirgway@gmail.com>  
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>  
GitHub User @jinmiaoluo (39730824) <jinmiaoluo@icloud.com>  
GitHub User @jobbrown (6345470) <msshane2008@gmail.com>  
GitHub User @kazysshr (30496953) <kazysshr0301@gmail.com>  
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>  
GitHub User @komisan19 (18901496) <komiyama6219@gmail.com>  
GitHub User @korzhao (64203902) <korzhao95@gmail.com>  
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>  
GitHub User @lgbgbl (65756378) <lgbgbl@qq.com>  
GitHub User @lhl2617 (33488131) <l.h.lee2617@gmail.com>  
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>  
GitHub User @lloydchang (1329685) <lloydchang@gmail.com>  
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>  
GitHub User @luochuanhang (96416201) <chuanhangluo@gmail.com>  
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>  
GitHub  
User @madiganz (18340029) <zacharywmadigan@gmail.com>  
GitHub User @maltalex (10195391) <code@bit48.net>  
GitHub User @markruler (38225900) <csu0414@gmail.com>  
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>  
GitHub User @micnncim (21333876) <micnncim@gmail.com>  
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>  
GitHub User @nu50218 (40682920) <nu\_ll@icloud.com>  
GitHub User @OlgaVIPetrova (44112727) <OVPPetrova@gmail.com>  
GitHub User @pierwill (19642016) <pierwill@users.noreply.github.com>  
GitHub User @pityonline (438222) <pityonline@gmail.com>  
GitHub User @po3rin (29445112) <abctail30@gmail.com>  
GitHub User @pokutuna (57545) <popopopokutuna@gmail.com>  
GitHub User @povsister (11040951) <pov@mahou-shoujo.moe>  
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>  
GitHub User @qcrao (7698088) <qcrao91@gmail.com>  
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>  
GitHub User @renthrayk (30576707) <renthrayk@gmail.com>  
GitHub  
User @roudkerk (52280478) <roudkerk@google.com>  
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>  
GitHub User @SataQiu (9354727) <shidaqiu2018@gmail.com>

GitHub User @seifchen (23326132) <chenxuefeng1207@gmail.com>  
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>  
GitHub User @sivchari (55221074) <shibuuuu5@gmail.com>  
GitHub User @skanehira (7888591) <sho19921005@gmail.com>  
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>  
GitHub User @surechen (7249331) <surechen17@gmail.com>  
GitHub User @syumai (6882878) <syumai@gmail.com>  
GitHub User @tangxi666 (48145175) <tx1275044634@gmail.com>  
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>  
GitHub User @tell-k (26263) <ffk2005@gmail.com>  
GitHub User @tennashi (10219626) <tennashio@gmail.com>  
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>  
GitHub User @uji (49834542) <ujiprogram@gmail.com>  
GitHub User @unbyte (5772358) <i@shangyes.net>  
GitHub User @uropek (39370426) <uropek@gmail.com>  
GitHub  
User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>  
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>  
GitHub User @wmdngngng (22067700) <wangmingdong@gmail.com>  
GitHub User @wolf1996 (5901874) <ksgiv37@gmail.com>  
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>  
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>  
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>  
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>  
Giulio Iotti <dullgiulio@gmail.com>  
Giulio Micheloni <giulio.micheloni@gmail.com>  
Giuseppe Valente <gvalente@arista.com>  
Gleb Stepanov <glebstepanov1992@gmail.com>  
Glenn Brown <glennb@google.com>  
Glenn Lewis <gmlewis@google.com>  
Gordon Klaus <gordon.klaus@gmail.com>  
Gordon Tyler <gordon@doxxx.net>  
Grace Han <hgrace503@gmail.com>  
Graham King <graham4king@gmail.com>  
Graham Miller <graham.miller@gmail.com>  
Grant Griffiths <ggp493@gmail.com>  
Green Lightning <GreenLightning.git@googlemail.com>  
Greg Poirier <greg.istehbest@gmail.com>  
Greg Steuck  
<gnezdo+github@google.com>  
Greg Thelen <gthelen@google.com>  
Greg Ward <greg@gerg.ca>  
Grgoire Delattre <gregoire.delattre@gmail.com>  
Gregory Man <man.gregory@gmail.com>  
Gregory Petrosyan <gregory.petrosyan@gmail.com>  
Guilherme Caruso <gui.martinscaruso@gmail.com>  
Guilherme Garnier <guilherme.garnier@gmail.com>  
Guilherme Goncalves <guilhermeaugustosg@gmail.com>



Guilherme Rezende <guilhermebr@gmail.com>  
Guilherme Souza <32180229+gqgs@users.noreply.github.com>  
Guillaume Blaquiere <guillaume.blaquiere@gmail.com>  
Guillaume J. Charmes <guillaume@charmes.net>  
Guillaume Sottas <guillaumesottas@gmail.com>  
Gnther Noack <gnoack@google.com>  
Guobiao Mei <meiguobiao@gmail.com>  
Guodong Li <guodongli@google.com>  
Guoliang Wang <iamwgliang@gmail.com>  
Guoqi Chen <chenguoqi@loongson.cn>  
Gustav Paul <gustav.paul@gmail.com>  
Gustav Westling <gustav@westling.xyz>  
Gustavo Franco <gustavorfranco@gmail.com>  
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>  
Gwenael Treguier <gwenn.kahz@gmail.com>  
Gyu-Ho  
Lee <gyuhox@gmail.com>  
H. brahim Gngr <igungor@gmail.com>  
Hajime Hoshi <hajimehoshi@gmail.com>  
Hallgrimur Gunnarsson <halg@google.com>  
HAMANO Tsukasa <hamano@osstech.co.jp>  
Han-Wen Nienhuys <hanwen@google.com>  
Hang Qian <hangqian90@gmail.com>  
Hanjun Kim <hallazzang@gmail.com>  
Hanlin He <hanling.he@gmail.com>  
Hanlin Shi <shihanlin9@gmail.com>  
Hans Nielsen <hans@stackallocated.com>  
Hao Mou <mouhao.mu@gmail.com>  
Haoran Luo <haoran.luo@chaitin.com>  
Haosdent Huang <haosdent@gmail.com>  
Harald Nordgren <haraldnordgren@gmail.com>  
Hari haran <hariharan.uno@gmail.com>  
Hariharan Srinath <srinathh@gmail.com>  
Harley Laue <losinggeneration@gmail.com>  
Harry Moreno <morenoh149@gmail.com>  
Harshavardhana <hrshvardhana@gmail.com>  
Hasan Ozgan <hasan@ozgan.net>  
Hasit Bhatt <hasit.p.bhatt@gmail.com>  
Hauke Lffler <hloeffler@users.noreply.github.com>  
Hvard Haugen <havard.haugen@gmail.com>  
He Liu <liulonnie@gmail.com>  
Hector Chu <hectorchu@gmail.com>  
Hector Martin Cantero <hector@marcansoft.com>  
Hein Khant  
Zaw <heinkhantzaw1@gmail.com>  
Henning Schmiedehausen <henning@schmiedehausen.org>  
Henrik Edwards <henrik.edwards@gmail.com>  
Henrik Hodne <henrik@hodne.io>

Henrique Vicente <henriquevicente@gmail.com>  
Henry Adi Sumarto <henry.adisumarto@gmail.com>  
Henry Bubert <google@mindeco.de>  
Henry Chang <mr.changyuheng@gmail.com>  
Henry Clifford <h.a.clifford@gmail.com>  
Henry Wong <liushuai.wang@elastic.co>  
Herbert Georg Fischer <herbert.fischer@gmail.com>  
Herbie Ong <herbie@google.com>  
Heschi Kreinick <heschi@google.com>  
Hidetatsu Yaginuma <ygnmhdt@gmail.com>  
Hilko Bengen <bengen@hilluzination.de>  
Himanshu Kishna Srivastava <28himanshu@gmail.com>  
Hiroaki Nakamura <hnakamur@gmail.com>  
Hiromichi Ema <ema.hiro@gmail.com>  
Hironao OTSUBO <motemen@gmail.com>  
Hiroshi Ioka <hirochachacha@gmail.com>  
Hitoshi Mitake <mitake.hitoshi@gmail.com>  
Holden Huang <ttyh061@gmail.com>  
Hong Ruiqi <hongruiqi@gmail.com>  
Hongfei Tan <feilengcui008@gmail.com>  
Horacio Duran <horacio.duran@gmail.com>  
Horst Rutter <hhrutter@gmail.com>  
Hossein  
Sheikh Attar <hattar@google.com>  
Hossein Zolfi <hossein.zolfi@gmail.com>  
Howard Zhang <howard.zhang@arm.com>  
Hsin Tsao <tsao@google.com>  
Hsin-Ho Yeh <yhh92u@gmail.com>  
Hu Keping <hukeping@huawei.com>  
Huan Du <i@huandu.me>  
Hugues Bruant <hugues.bruant@gmail.com>  
Huy Le <huy.dinh.le.89@gmail.com>  
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>  
Hyoyoung Chang <hyoyoung@gmail.com>  
Ian Cottrell <iancottrell@google.com>  
Ian Davis <nospam@iandavis.com>  
Ian Gudger <ian@loosescre.ws>  
Ian Haken <ihaken@netflix.com>  
Ian Kent <iankent85@gmail.com>  
Ian Lance Taylor <iant@golang.org>  
Ian Leue <ian@appboy.com>  
Ian Mckay <iann0036@gmail.com>  
Ian Tay <iantay@google.com>  
Ian Zapolsky <ianzapolsky@gmail.com>  
Ibrahim AshShohail <ibra.sho@gmail.com>  
Icarus Sparry <golang@icarus.freeuk.com>  
Iccha Sethi <icchasethi@gmail.com>  
Ichinose Shogo <shogo82148@gmail.com>

Idora Shinatose <idora.shinatose@gmail.com>  
Ignacio Hagopian <jsign.uy@gmail.com>  
Igor Bernstein <igorbernstein@google.com>  
Igor  
Bolotnikov <igor.v.bolotnikov@gmail.com>  
Igor Dolzhikov <bluesriverz@gmail.com>  
Igor Vashyst <ivashyst@gmail.com>  
Igor Zhilianin <igor.zhilianin@gmail.com>  
Ikko Ashimine <eltoclear@gmail.com>  
Ilya Yalovyy <yalovoy@gmail.com>  
Ilya Chukov <56119080+Elias506@users.noreply.github.com>  
Ilya Mateyko <me@astrophena.name>  
Ilya Sinebnikov <sidhmangh@gmail.com>  
Ilya Tocar <ilya.tocar@intel.com>  
INADA Naoki <songofacandy@gmail.com>  
Inanc Gumus <m@inanc.io>  
Ingo Gottwald <in.gottwald@gmail.com>  
Ingo Krabbe <ikrabbe.ask@gmail.com>  
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>  
Ioannis Georgoulas <geototti21@hotmail.com>  
Irbe Krumina <irbekrm@gmail.com>  
Irfan Sharif <irfanmahmoudsharif@gmail.com>  
Irieda Noboru <irieda@gmail.com>  
Isaac Ardis <isaac.ardis@gmail.com>  
Isaac Wagner <ibw@isaacwagner.me>  
Isfan Azhabil <isfanazhabil@gmail.com>  
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>  
Issac Trotts <issactrotts@google.com>  
Ivan Babrou <ivan@cloudflare.com>  
Ivan  
Bertona <ivan.bertona@gmail.com>  
Ivan Krasin <krasin@golang.org>  
Ivan Kutuzov <arbrix@gmail.com>  
Ivan Markin <sw@nogoegst.net>  
Ivan Moscoso <moscoso@gmail.com>  
Ivan Osadchii <ivan.osadchii@gmail.com>  
Ivan Sharavuev <shpiwan@gmail.com>  
Ivan Trubach <mr.trubach@icloud.com>  
Ivan Ukhov <ivan.ukhov@gmail.com>  
Ivy Evans <ivy@ivyevans.net>  
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>  
Jaap Aarts <jaap.aarts1@gmail.com>  
Jack Britton <jackxbritton@gmail.com>  
Jack Lindamood <jlindamo@justin.tv>  
Jack You <jamesyou@google.com>  
Jacob Baskin <jbaskin@google.com>  
Jacob Blain Christen <dweomer5@gmail.com>  
Jacob H. Haven <jacob@cloudflare.com>

Jacob Hoffman-Andrews <github@hoffman-andrews.com>  
Jacob Walker <jacobwalker0814@gmail.com>  
Jaden Teng <long.asyn@gmail.com>  
Jae Kwon <jae@tendermint.com>  
Jake B <doogie1012@gmail.com>  
Jake Ciolek <jakub@ciolek.dev>  
Jakob Borg <jakob@nym.se>  
Jakob Weisblat <jakobw@mit.edu>  
Jakub ajka <jcajka@redhat.com>  
Jakub Kaczmarzyk <jakubk@mit.edu>  
Jakub  
Ryszard Czarnowicz <j.czarnowicz@gmail.com>  
Jakub Warczarek <jakub.warczarek@gmail.com>  
Jamal Carvalho <jamal.a.carvalho@gmail.com>  
James Aguilar <jaguilar@google.com>  
James Bardin <j.bardin@gmail.com>  
James Chacon <jchacon@google.com>  
James Clarke <jrtc27@jrtc27.com>  
James Cowgill <James.Cowgill@imgtec.com>  
James Craig Burley <james-github@burleyarch.com>  
James David Chalfant <james.chalfant@gmail.com>  
James Eady <jmeady@google.com>  
James Fennell <jpfennell@google.com>  
James Fysh <james.fysh@gmail.com>  
James Gray <james@james4k.com>  
James Harris <mailjamesharris@gmail.com>  
James Hartig <fastest963@gmail.com>  
James Kasten <jdkasten@google.com>  
James Lawrence <jljatone@gmail.com>  
James Meneghello <rawrz0r@gmail.com>  
James Myers <jfmyers9@gmail.com>  
James Naftel <james.naftel@gmail.com>  
James Neve <jamesoneve@gmail.com>  
James Nugent <james@jen20.com>  
James P. Cooper <jamespcooper@gmail.com>  
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>  
James Schofield <james@shoeboxapp.com>  
James  
Smith <jrs1995@icloud.com>  
James Sweet <james.sweet88@googlemail.com>  
James Toy <nil@opensesame.st>  
James Treanor <jtreanor3@gmail.com>  
James Tucker <raggi@google.com>  
James Whitehead <jnwhiteh@gmail.com>  
Jamie Beverly <jamie.r.beverly@gmail.com>  
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>  
Jamie Kerr <jkerr113@googlemail.com>  
Jamie Liu <jamieliu@google.com>

Jamie Stackhouse <contin673@gmail.com>  
Jamie Turner <jamwt@dropbox.com>  
Jamie Wilkinson <jaq@spacepants.org>  
Jamil Djadala <djadala@gmail.com>  
Jan Berktold <jan@berktold.co>  
Jan H. Hosang <jan.hosang@gmail.com>  
Jan Kratochvil <jan.kratochvil@redhat.com>  
Jan Lehnardt <jan@apache.org>  
Jan Mercl <0xjnml@gmail.com> <befelemepeseveze@gmail.com>  
Jan Newmarch <jan.newmarch@gmail.com>  
Jan Pilzer <jan.pilzer@gmx.de>  
Jan Steinke <jan.steinke@gmail.com>  
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>  
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>  
Jannis Andrija Schnitzer <jannis@schnitzer.im>  
Jared Allard  
<jaredallard@users.noreply.github.com>  
Jared Culp <jculp14@gmail.com>  
Jaroslav Poepko <jp@webmaster.ms>  
Jason A. Donenfeld <Jason@zx2c4.com>  
Jason Baker <jason-baker@users.noreply.github.com>  
Jason Barnett <jason.w.barnett@gmail.com>  
Jason Buberel <jbuberel@google.com>  
Jason Chu <jasonchujc@gmail.com>  
Jason Del Ponte <delpontej@gmail.com>  
Jason Hall <jasonhall@google.com>  
Jason Keene <jasonkeene@gmail.com>  
Jason LeBrun <jblebrun@gmail.com>  
Jason Smale <jsmale@zendesk.com>  
Jason Travis <infomaniac7@gmail.com>  
Jason Wangsadinata <jwangsadinata@gmail.com>  
Javier Kohen <jkohen@google.com>  
Javier Revillas <jrevillas@massivedynamic.io>  
Javier Segura <javism@gmail.com>  
Jay Chen <chenjie@chenjie.info>  
Jay Conrod <jayconrod@google.com>  
Jay Lee <BusyJayLee@gmail.com>  
Jay Taylor <outtatime@gmail.com>  
Jay Weisskopf <jay@jayschwa.net>  
Jean de Klerk <deklerk@google.com>  
Jean-Andr Santoni <jean.andre.santoni@gmail.com>  
Jean-Franois Bustarret <jf@bustarret.com>  
Jean-Francois Cantin <jfcantin@gmail.com>  
Jean-Hadrien  
Chabran <jh@chabran.fr>  
Jean-Marc Eurin <jmeurin@google.com>  
Jean-Nicolas Moal <jn.moal@gmail.com>  
Jed Denlea <jed@fastly.com>

Jdrzej Szczepaniak <jbszczepaniak@gmail.com>  
Jeet Parekh <jeetparekh96@gmail.com>  
Jeevanandam M <jeeva@myjeeva.com>  
Jeff (Zhefu) Jiang <jeffjiang@google.com>  
Jeff Craig <jeffcraig@google.com>  
Jeff Dupont <jeff.dupont@gmail.com>  
Jeff Hodges <jeff@somethingsimilar.com>  
Jeff Johnson <jrjohnson@google.com>  
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>  
Jeff Sickel <jas@corpus-callosum.com>  
Jeff Wendling <jeff@spacemonkey.com>  
Jeff Wentworth <j.wentworth@gmail.com>  
Jeff Widman <jeff@jeffwidman.com>  
Jeffrey H <jeffreyh192@gmail.com>  
Jelte Fennema <github-tech@jeltef.nl>  
Jens Frederich <jfrederich@gmail.com>  
Jeremiah Harmsen <jeremiah@google.com>  
Jeremy Banks <\_@jeremy.ca>  
Jeremy Canady <jcanady@gmail.com>  
Jeremy Faller <jeremy@golang.org>  
Jeremy Jackins <jeremyjackins@gmail.com>  
Jeremy Jay <jeremy@pbnjay.com>  
Jeremy Schlatter <jeremy.schlatter@gmail.com>  
Jero  
Bado <tokidokitalkyou@gmail.com>  
Jeroen Bobbeldijk <jerbob92@gmail.com>  
Jeroen Simonetti <jeroen@simonetti.nl>  
Jrme Doucet <jerdct@gmail.com>  
Jerrin Shaji George <jerrinsg@gmail.com>  
Jess Frazelle <me@jessfraz.com>  
Jesse Szwedko <jesse.szwedko@gmail.com>  
Jess Espino <jespinog@gmail.com>  
Jia Zhan <jzhan@uber.com>  
Jiacai Liu <jiacai2050@gmail.com>  
Jiahao Lu <lujjjh@gmail.com>  
Jiahua Wang <wjh180909@gmail.com>  
Jianing Yu <jnyu@google.com>  
Jianqiao Li <jianqiaoli@google.com>  
Jiayu Yi <yijiayu@gmail.com>  
Jie Ma <jienius@outlook.com>  
Jihyun Yu <yjh0502@gmail.com>  
Jim Cote <jfcote87@gmail.com>  
Jim Kingdon <jim@bolt.me>  
Jim McGrath <jimmc2@gmail.com>  
Jim Minter <jminter@redhat.com>  
Jimmy Frasche <soapboxcicero@gmail.com>  
Jimmy Zelinskie <jimmyzelinskie@gmail.com>  
Jin-wook Jeong <jeweljar@hanmail.net>

Jingcheng Zhang <diogin@gmail.com>  
Jingguo Yao <yaojingguo@gmail.com>  
Jingnan Si <jingnan.si@gmail.com>  
Jinkun Zhang <franksnolf@gmail.com>  
Jinwen Wo <wojinwen@huawei.com>  
Jiong Du  
<londevil@gmail.com>  
Jirka Dank <dnk@mail.muni.cz>  
Jiulong Wang <jiulongw@gmail.com>  
Joakim Sernbrant <serbaut@gmail.com>  
Jochen Weber <jochen.weber80@gmail.com>  
Joe Bowbeer <joe.bowbeer@gmail.com>  
Joe Cortopassi <joe@joecortopassi.com>  
Joe Farrell <joe2farrell@gmail.com>  
Joe Harrison <joehazzers@gmail.com>  
Joe Henke <joed.henke@gmail.com>  
Joe Kyo <xunianzu@gmail.com>  
Joe Poirier <jdpoirier@gmail.com>  
Joe Richey <joerichey@google.com>  
Joe Shaw <joe@joeshaw.org>  
Joe Sylve <joe.sylve@gmail.com>  
Joe Tsai <joetsai@digital-static.net>  
Joel Courtney <euphemize@gmail.com>  
Joel Ferrier <joelferrier@google.com>  
Joel Sing <joel@sing.id.au> <jsing@google.com>  
Jol Stemmer <jstemmer@google.com>  
Joel Stemmer <stemmertech@gmail.com>  
Joey Geiger <jgeiger@users.noreply.github.com>  
Johan Brandhorst <johan.brandhorst@gmail.com>  
Johan Euphrosine <proppy@google.com>  
Johan Jansson <johan.jansson@iki.fi>  
Johan Knutzen <johan@senri.se>  
Johan Sageryd <j@1616.se>  
Johannes Altmanninger <aclopte@gmail.com>  
Johannes  
Huning <johannes.huning@gmail.com>  
John Asmuth <jasmuth@gmail.com>  
John Bampton <jbampton@gmail.com>  
John Beisley <huin@google.com>  
John C Barstow <jbowtie@amathaine.com>  
John DeNero <denero@google.com>  
John Dethridge <jcd@golang.org>  
John Gibb <johngibb@gmail.com>  
John Gilik <john@jgilik.com>  
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>  
John Howard Palevich <jack.palevich@gmail.com>  
John Jago <johnjago@protonmail.com>  
John Jeffery <jjeffery@sp.com.au>

John Jenkins <twodopeshaggy@gmail.com>  
John Kelly <jkelly@squarespace.com>  
John Leidegren <john.leidegren@gmail.com>  
John McCabe <john@johnmccabe.net>  
John Moore <johnkenneth.moore@gmail.com>  
John Newlin <jnewlin@google.com>  
John Olheiser <john.olheiser@gmail.com>  
John Papandriopoulos <jpap.code@gmail.com>  
John Potocny <johnp@vividcortex.com>  
John R. Lenton <jlenton@gmail.com>  
John Schnake <schnake.john@gmail.com>  
John Shahid <jvshahid@gmail.com>  
John Tuley <john@tuley.org>  
John Weldon <johnweldon4@gmail.com>  
Johnny Luo <johnnyluo1980@gmail.com>  
Jon  
Chen <jchen@justin.tv>  
Jon Johnson <jonjohnson@google.com>  
Jonas Bernoulli <jonas@bernoul.li>  
Jonathan Albrecht <jonathan.albrecht@ibm.com>  
Jonathan Allie <jonallie@google.com>  
Jonathan Amsterdam <jba@google.com>  
Jonathan Boule <jonathanboule@gmail.com>  
Jonathan Chen <dijonkitchen@users.noreply.github.com>  
Jonathan Feinberg <feinberg@google.com>  
Jonathan Gold <jgold.bg@gmail.com>  
Jonathan Hseu <jhseu@google.com>  
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>  
Jonathan Nieder <jrn@google.com>  
Jonathan Pentecost <pentecostjonathan@gmail.com>  
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>  
Jonathan Rudenberg <jonathan@titanous.com>  
Jonathan Stacks <jonstacks13@gmail.com>  
Jonathan Swinney <jswinney@amazon.com>  
Jonathan Wills <runningwild@gmail.com>  
Jonathon Lacher <jonathon.lacher@gmail.com>  
Jongmin Kim <atomaths@gmail.com>  
Joonas Kuorilehto <joneskoo@derbian.fi>  
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>  
Jordan Christiansen  
<xordspar0@gmail.com>  
Jordan Krage <jmank88@gmail.com>  
Jordan Lewis <jordanthelewis@gmail.com>  
Jordan Liggitt <liggitt@google.com>  
Jordan Rhee <jordanrh@microsoft.com>  
Jordan Rupprecht <rupprecht@google.com>  
Jordi Martin <jordimartin@gmail.com>  
Jorge Araya <jorgejavieran@yahoo.com.mx>



Jorge L. Fatta <jorge.fatta@auth0.com>  
Jorge Troncoso <jatron@google.com>  
Jos Visser <josv@google.com>  
Josa Gesell <josa@gesell.me>  
Jose Luis Vazquez Gonzalez <josvazg@gmail.com>  
Joseph Bonneau <jcb@google.com>  
Joseph Holsten <joseph@josephholsten.com>  
Joseph Morag <sefim96@gmail.com>  
Josh Baum <joshbaum@google.com>  
Josh Bleecher Snyder <josharian@gmail.com>  
Josh Chorlton <jchorlton@gmail.com>  
Josh Deprez <josh.deprez@gmail.com>  
Josh Goebel <dreamer3@gmail.com>  
Josh Hoak <jhoak@google.com>  
Josh Holland <jrh@joshh.co.uk>  
Josh Rickmar <jrick@companyzero.com>  
Josh Roppo <joshroppo@gmail.com>  
Josh Varga <josh.varga@gmail.com>  
Joshua Bezaleel Abednego <joshua.bezaleel@gmail.com>  
Joshua Boelter <joshua.boelter@intel.com>  
Joshua  
Chase <jcjosuachase@gmail.com>  
Joshua Crowgey <jcrowgey@uw.edu>  
Joshua Harshman <joshgreyhat@gmail.com>  
Joshua M. Clulow <josh.clulow@joyent.com>  
Joshua Rubin <joshua@rubixconsulting.com>  
Josselin Costanzi <josselin@costanzi.fr>  
Jostein Stuhauug <js@solidsystem.no>  
JP Sugarbroad <jpsugar@google.com>  
JT Olds <jtolds@xnet5.com>  
JT Olio <hello@jtolio.com>  
Juan Carlos <juanjcsr@gmail.com>  
Juan Pablo Civile <elementohb@gmail.com>  
Jude Pereira <judebpereira@gmail.com>  
Jukka-Pekka Kekkonen <karatepekka@gmail.com>  
Julia Hansbrough <flowerhack@google.com>  
Julian Kornberger <jk+github@digineo.de>  
Julian Pastarmov <pastarmovj@google.com>  
Julian Phillips <julian@quantumfyre.co.uk>  
Julian Tibble <julian.tibble@gmail.com>  
Julie Qiu <julie@golang.org>  
Julien Kauffmann <julien.kauffmann@freelan.org>  
Julien Salleyron <julien.salleyron@gmail.com>  
Julien Schmidt <google@julienschmidt.com>  
Julien Tant <julien@craftyx.fr>  
Julio Montes <julio.montes@intel.com>  
Jun Zhang <jim.zoumo@gmail.com>  
Junchen

Li <junchen.li@arm.com>  
Junda Liu <junda@celer.network>  
Jungho Ahn <jhahn@google.com>  
Junya Hayashi <ledmonster@gmail.com>  
Juraj Sukop <sukop@users.noreply.github.com>  
Jure Ham <jure.ham@zemanta.com>  
Justin Gracenin <jgracenin@gmail.com>  
Justin Li <git@justinli.net>  
Justin Nu <nuss.justin@gmail.com>  
Justyn Temme <justyntemme@gmail.com>  
Kai Backman <kaib@golang.org>  
Kai Dong <dokia2357@gmail.com>  
Kai Lke <kai@kinvolk.io>  
Kai Trukenmller <ktye78@gmail.com>  
Kale Blankenship <kale@lemnisis.com>  
Kaleb Elwert <kelwert@atlassian.com>  
Kalman Bekesi <kalmanb@google.com>  
Kamal Aboul-Hosn <aboulhosn@google.com>  
Kamil Chmielewski <kamil.chm@gmail.com>  
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>  
Kamil Rytarowski <krytarowski@users.noreply.github.com>  
Kang Hu <hukangustc@gmail.com>  
Kanta Ebihara <kantaebihara@gmail.com>  
Karan Dhiman <karandhi@ca.ibm.com>  
Karel Pazdera <pazderak@gmail.com>  
Karoly Negyesi <chx1975@gmail.com>  
Karsten Khler <karsten.koehler95@gmail.com>  
Karthik  
Nayak <karthik.188@gmail.com>  
Kashav Madan <kshvmdn@gmail.com>  
Kate Manson <kate.manson@izettle.com>  
Katharine Berry <ktbry@google.com>  
Katie Hockman <katie@golang.org>  
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>  
Katrina Owen <katrina.owen@gmail.com>  
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>  
Kay Zhu <kayzhu@google.com>  
Kazuhiro Sera <seratch@gmail.com>  
KB Sriram <kbsriram@google.com>  
Keegan Carruthers-Smith <keegan.csmith@gmail.com>  
Kei Son <hey.calmdown@gmail.com>  
Keiichi Hirobe <challenge.akane@gmail.com>  
Keiji Yoshida <keijiyoshida.mail@gmail.com>  
Keisuke Kishimoto <keisuke.kishimoto@gmail.com>  
Keith Ball <inflatablewoman@gmail.com>  
Keith Randall <khr@golang.org>  
Keith Rarick <kr@xph.us>  
Kelly Heller <pestophagous@gmail.com>

Kelsey Hightower <kelsey.hightower@gmail.com>  
Kelvin Foo Chuan Lyi <vmirage@gmail.com>  
Kemal Elmizan <kemalelmizan@gmail.com>  
Ken Friedenbach <kenliz@cruzio.com>  
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>  
Ken Sedgwick <ken@bonsai.com>  
Ken Thompson <ken@golang.org>  
Kenichi  
Tsunokawa <kenichi.tsunokawa@gmail.com>  
Kenji Kaneda <kenji.kaneda@gmail.com>  
Kenji Yano <kenji.yano@gmail.com>  
Kenneth Shaw <kenshaw@gmail.com>  
Kenny Grant <kennygrant@gmail.com>  
Kensei Nakada <handbomusic@gmail.com>  
Kenta Mori <zoncoen@gmail.com>  
Kerollos Magdy <kerolloz@yahoo.com>  
Ketan Parmar <ketanbparmar@gmail.com>  
Kevan Swanberg <kevswanberg@gmail.com>  
Kevin Albertson <kevin.albertson@mongodb.com>  
Kevin Ballard <kevin@sb.org>  
Kevin Burke <kev@inburke.com>  
Kvin Dunglas <dunglas@gmail.com>  
Kevin Gillette <extemporalgenome@gmail.com>  
Kevin Herro <kevin109104@gmail.com>  
Kevin Kirsche <kev.kirsche@gmail.com>  
Kevin Klues <klueska@gmail.com> <klueska@google.com>  
Kevin Malachowski <chowski@google.com>  
Kevin Parsons <kevpar@microsoft.com>  
Kevin Ruffin <kruffin@gmail.com>  
Kevin Vu <kevin.m.vu@gmail.com>  
Kevin Zita <bleedgreenandgold@gmail.com>  
Keyan Pishdadian <kpishdadian@gmail.com>  
Keyuan Li <keyuanli123@gmail.com>  
Kezhu Wang <kezhuw@gmail.com>  
Khosrow Moossavi <khos2ow@gmail.com>  
Kieran  
Colford <kieran@kcolford.com>  
Kieran Gorman <kieran.j.gorman@gmail.com>  
Kim Shrier <kshrier@racktopsystems.com>  
Kim Yongbin <kybinz@gmail.com>  
Kir Kolyshkin <kolyshkin@gmail.com>  
Kirill Korotaev <kirillx@gmail.com>  
Kirill Motkov <Motkov.Kirill@gmail.com>  
Kirill Smelkov <kirr@nexedi.com>  
Kirill Tatchihin <kirabsuir@gmail.com>  
Kirk Han <kirk91.han@gmail.com>  
Kirklin McDonald <kirklin.mcdonald@gmail.com>  
KJ Tsanaksidis <ktsanaksidis@zendesk.com>

Klaus Post <klauspost@gmail.com>  
Kodie Goodwin <kodiegoodwin@gmail.com>  
Koichi Shiraishi <zchee.io@gmail.com>  
Koki Ide <niconegoto@yahoo.co.jp>  
Koki Tomoshige <tomocy.dev@gmail.com>  
Komu Wairagu <komuw05@gmail.com>  
Konstantin <konstantin8105@gmail.com>  
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>  
Koya IWAMURA <kiwamura0314@gmail.com>  
Kris Kwiatkowski <kris@cloudflare.com>  
Kris Nova <kris@nivenly.com>  
Kris Rousey <krousey@google.com>  
Krishna Birla <krishnabirla16@gmail.com>  
Kristopher Watts <traetox@gmail.com>  
Krzysztof  
Dbrowski <krzysdabro@live.com>  
Kshitij Saraogi <kshitijgaraogi@gmail.com>  
Kun Li <likunarmstrong@gmail.com>  
Kunpei Sakai <namusyaka@gmail.com>  
Kuntal Majumder <hellozee@disroot.org>  
Kush Patel <kush.patel@hootsuite.com>  
Kyle Consalus <consalus@gmail.com>  
Kyle Isom <kyle@gokyle.net>  
Kyle Jones <kyle@kyledj.com>  
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>  
Kyle Nusbaum <kyle@datadog.com>  
Kyle Shannon <kyle@pobox.com>  
Kyle Spiers <eiais@google.com>  
Kyle Wood <kyle@kylewood.cc>  
Kyohei Kadota <lufia@lufia.org>  
Kyrylo Silin <silin@kyrylo.org>  
L Campbell <unpantsu@gmail.com>  
Lai Jiangshan <eag0628@gmail.com>  
Lajos Papp <lalyos@yahoo.com>  
Lakshay Garg <lakshay.garg.1996@gmail.com>  
Lann Martin <lanm@google.com>  
Lanre Adelowo <yo@lanre.wtf>  
Lapo Luchini <lapo@lapo.it>  
Larry Clapp <larry@theclapp.org>  
Larry Hosken <lahosken@golang.org>  
Lars Jeppesen <jeppesen.lars@gmail.com>  
Lars Lehtonen <lars.lehtonen@gmail.com>  
Lars Wiegman <lars@namsral.com>  
Larz Conwell <larzconwell@gmail.com>  
Laurent  
Voisin <lpvoisin@gmail.com>  
Laurie Clark-Michalek <laurie@qubit.com>  
LE Manh Cuong <cuong.manhle.vn@gmail.com>

Lee Hinman <hinman@gmail.com>  
Lee Packham <lpackham@gmail.com>  
Lehner Florian <dev@der-flo.net>  
Leigh McCulloch <leighmcc@gmail.com>  
Leo Antunes <leo@costela.net>  
Leo Rudberg <ljr@google.com>  
Leon Klingele <git@leonklingele.de>  
Leonard Wang <wangdeyu0907@gmail.com> <wangdeyu@golangcn.org>  
Leonardo Comelli <leonardo.comelli@gmail.com>  
Leonel Quinteros <leonel.quinteros@gmail.com>  
Lev Shamardin <shamardin@gmail.com>  
Lewin Bormann <lewin.bormann@gmail.com>  
Lewis Waddicor <nemesismk2@gmail.com>  
Li-Yu Yu <aaronyu@google.com>  
Liam Haworth <liam@haworth.id.au>  
Lily Chung <lilithkchung@gmail.com>  
Lingchao Xin <douglarek@gmail.com>  
Lion Yang <lion@aosc.xyz>  
Liz Rice <liz@lizrice.com>  
Lize Cai <lizzcai1@gmail.com>  
Lloyd Dewolf <foolswisdom@gmail.com>  
Llus Battle i Rossell <viric@viric.name>  
Lorenz Bauer <lmb@cloudflare.com>  
Lorenz Brun <lorenz@brun.one>  
Lorenz Nickel <mail@lorenznickel.de>  
Lorenzo  
Masini <rugginoso@develer.com>  
Lorenzo Stoakes <lstoakes@gmail.com>  
Louis Kruger <louisk@google.com>  
Luan Santos <cfcluan@gmail.com>  
Lubomir I. Ivanov <neolit123@gmail.com>  
Luca Bruno <luca.bruno@coreos.com>  
Luca Greco <luca.greco@alcacoop.it>  
Luca Spiller <luca@stackednotion.com>  
Lucas Bremgartner <lucas.bremgartner@gmail.com>  
Lucas Clemente <lclemente@google.com>  
Lucien Stuker <lucien.stuker@gmail.com>  
Lucio De Re <lucio.dere@gmail.com>  
Ludi Rehak <ludi317@gmail.com>  
Luigi Riefolo <luigi.riefolo@gmail.com>  
Luit van Drongelen <luitvd@gmail.com>  
Luka Zakrajek <tr00.g33k@gmail.com>  
Luka Zitnik <luka.zitnik@gmail.com>  
Lukasz Milewski <lmmilewski@gmail.com>  
Luke Champine <luke.champine@gmail.com>  
Luke Curley <qpingu@gmail.com>  
Luke Granger-Brown <git@lukegb.com>  
Luke Shumaker <lukeshu@datawire.io>

Luke Young <bored-engineer@users.noreply.github.com>  
Luna Duclos <luna.duclos@palmstonegames.com>  
Luuk van Dijk <lvd@golang.org> <lvd@google.com>  
Lyle Franklin <lylejfranklin@gmail.com>  
Lynn  
Boger <laboger@linux.vnet.ibm.com>  
Ma Peiqi <mapeiqi2017@gmail.com>  
Maarten Bezemer <maarten.bezemer@gmail.com>  
Maciej Dbski <maciejd@google.com>  
Madhu Rajanna <madhupr007@gmail.com>  
Magnus Hiie <magnus.hiie@gmail.com>  
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>  
Maia Lee <maia.lee@leftfieldlabs.com>  
Maicon Costa <maiconscosta@gmail.com>  
Mak Kolybabi <mak@kolybabi.com>  
Maksym Trykur <maksym.trykur@gmail.com>  
Mal Curtis <mal@mal.co.nz>  
Manfred Touron <m@42.am>  
Manigandan Dharmalingam <manigandan.jeff@gmail.com>  
Manish Goregaokar <manishsmail@gmail.com>  
Manlio Perillo <manlio.perillo@gmail.com>  
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>  
Mansour Rahimi <rahimi.mnr@gmail.com>  
Manu Garg <manugarg@google.com>  
Manu S Ajith <neo@codingarena.in>  
Manuel Mendez <mmendez534@gmail.com>  
Marat Khabibullin <marat.khabibullin@jetbrains.com>  
Marc Sanmiquel <marcsanmiquel@gmail.com>  
Marc Weistroff <marc@weistroff.net>  
Marc-Antoine Ruel <maruel@chromium.org>  
Marcel  
Edmund Franke <marcel.edmund.franke@gmail.com>  
Marcel van Lohuizen <mpvl@golang.org>  
Marcelo Cantos <marcelo.cantos@gmail.com>  
Marcelo E. Magallon <marcelo.magallon@gmail.com>  
Marco Gazerro <gazerro@open2b.com>  
Marco Hennings <marco.hennings@freiheit.com>  
Marcus Weiner <marcus.weiner@gmail.com>  
Marcus Willock <crazcalm@gmail.com>  
Marga Manterola <marga@google.com>  
Mariano Cano <mariano@smallstep.com>  
Marin Bai <marin.basic02@gmail.com>  
Mario Arranz <marioarranzr@gmail.com>  
Marius A. Eriksen <marius@grailbio.com>  
Marius Nuennerich <mnu@google.com>  
Mark Adams <mark@markadams.me>  
Mark Bucciarelli <mkbucc@gmail.com>  
Mark Dain <mark@markdain.net>

Mark Glines <mark@glines.org>  
Mark Hansen <markhansen@google.com>  
Mark Harrison <marhar@google.com>  
Mark Jeffery <dandare100@gmail.com>  
Mark Percival <m@mdp.im>  
Mark Pulford <mark@kyne.com.au>  
Mark Rushakoff <mark.rushakoff@gmail.com>  
Mark Ryan <mark.d.ryan@intel.com>  
Mark Severson <miquella@gmail.com>  
Mark Theunissen <mark.theunissen@gmail.com>  
Mark  
Villacampa <m@markvillacampa.com>  
Mark Wolfe <mark@wolfe.id.au>  
Mark Zavislak <zavislak@google.com>  
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>  
Marko Kevac <marko@kevac.org>  
Marko Kungla <marko.kungla@gmail.com>  
Marko Mikulicic <mkm@google.com>  
Marko Mudrinic <mudrinic.mare@gmail.com>  
Marko Tiikkaja <marko@joh.to>  
Markus Duft <markus.duft@salomon.at>  
Markus Sonderegger <marraison@gmail.com>  
Markus Zimmermann <zimmski@gmail.com>  
Marten Seemann <martenseemann@gmail.com>  
Martin Asquino <martin.asquino@gmail.com>  
Martin Bertschler <mbertschler@gmail.com>  
Martin Garton <garton@gmail.com>  
Martin Habbecke <marhab@google.com>  
Martin Hamrle <martin.hamrle@gmail.com>  
Martin Hoefling <martin.hoefling@gmx.de>  
Martin Kreichgauer <martinkr@google.com>  
Martin Kunc <martinkunc@users.noreply.github.com>  
Martin Lindhe <martin.j.lindhe@gmail.com>  
Martin Mhrmann <martin@golang.org> <moehrmann@google.com> <martisch@uos.de>  
Martin Neubauer <m.ne@gmx.net>  
Martin Olsen <github.com@martinolsen.net>  
Martin  
Olsson <martin@minimum.se>  
Martin Probst <martin@probst.io>  
Martin Sucha <anty.sk+git@gmail.com>  
Martin Tournoij <martin@arp242.net>  
Martins Sipenko <martins.sipenko@gmail.com>  
Martynas Budrinas <mabu@google.com>  
Marvin Stenger <marvin.stenger94@gmail.com>  
Marwan Sulaiman <marwan.sulaiman@work.co>  
Maryan Hratson <gmarik@gmail.com>  
Masahiro Furudate <masahiro.furudate@gmail.com>  
Masahiro Wakame <vvakame@gmail.com>

Masaki Yoshida <yoshida.masaki@gmail.com>  
Masaya Watanabe <sfbgwm30@gmail.com>  
Mat Byczkowski <mbyczkowski@gmail.com>  
Mat Ryer <thatmatryer@gmail.com>  
Mt Gulys <mgulyas86@gmail.com>  
Matej Bao <matejbaco@gmail.com>  
Mateus Amin <mateus.amin@gmail.com>  
Mateusz Czapliski <czapkofan@gmail.com>  
Matheus Alcantara <matheusssilv97@gmail.com>  
Mathias Beke <git@denbeke.be>  
Mathias Hall-Andersen <mathias@hall-andersen.dk>  
Mathias Leppich <mleppich@muhqu.de>  
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>  
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>  
Matt  
Aimonetti <mattaimonetti@gmail.com>  
Matt Blair <me@matthewblair.net>  
Matt Bostock <matt@mattbostock.com>  
Matt Brown <mdbrown@google.com>  
Matt Dee <mdee@hioscar.com>  
Matt Drollette <matt@drollette.com>  
Matt Harden <matt.harden@gmail.com>  
Matt Jibson <matt.jibson@gmail.com>  
Matt Joiner <anacrolix@gmail.com>  
Matt Jones <mrjones@google.com>  
Matt Juran <thepciet@gmail.com>  
Matt Layher <mdllyher@gmail.com>  
Matt Masurka <masurka@google.com>  
Matt Pearing <broskies@google.com>  
Matt Reiferson <mreiferson@gmail.com>  
Matt Robenolt <matt@ydekproductions.com>  
Matt Strong <mstrong1341@gmail.com>  
Matt T. Proud <matt.proud@gmail.com>  
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>  
Matthew Brennan <matty.brennan@gmail.com>  
Matthew Broberg <matthewbbroberg@gmail.com>  
Matthew Cottingham <mattcottingham@gmail.com>  
Matthew Dempsey <mdempsey@google.com>  
Matthew Denton <mdenton@skyportsystems.com>  
Matthew Holt <Matthew.Holt+git@gmail.com>  
Matthew Horsnell <matthew.horsnell@gmail.com>  
Matthew  
Waters <mwwaters@gmail.com>  
Matthias Dtsch <matze@mdoetsch.de>  
Matthias Frei <matthias.frei@inf.ethz.ch>  
Mathieu Hauglustaine <matt.hauglustaine@gmail.com>  
Mathieu Olivier <olivier.matthieu@gmail.com>  
Matthijs Kooijman <matthijs@stdin.nl>



Mattias Appelgren <mattias@ppelgren.se>  
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>  
Max Drosdo.wwww <g1ran1q@gmail.com>  
Max Riveiro <kavu13@gmail.com>  
Max Schmitt <max@schmitt.mx>  
Max Semenik <maxsem.wiki@gmail.com>  
Max Ushakov <ushmax@gmail.com>  
Maxim Eryomenko <moeryomenko@gmail.com>  
Maxim Khitrov <max@mxcrypt.com>  
Maxim Pimenov <mpimenov@google.com>  
Maxim Pugachev <pugachev.mm@gmail.com>  
Maxim Ushakov <ushakov@google.com>  
Maxime de Roucy <maxime.deroucy@gmail.com>  
Mximo Cuadros Ortiz <mcuadros@gmail.com>  
Maxwell Krohn <themax@gmail.com>  
Maya Rashish <maya@NetBSD.org>  
Mayank Kumar <krmayankk@gmail.com>  
Mehrad Sadeghi <2012.linkinpark@gmail.com>  
Meir Fischer <meirfischer@gmail.com>  
Meng Zhuo <mengzhuo1203@gmail.com> <mzh@golangcn.org>  
Mhd  
Sulhan <m.shulhan@gmail.com>  
Mia Zhu <CrystalZhu1025getu@gmail.com>  
Micah Stetson <micah.stetson@gmail.com>  
Michael Anthony Knyszek <mknyszek@google.com>  
Michael Brandenburg <mbrandenburg@bolste.com>  
Michael Chaten <mchaten@gmail.com>  
Michael Cook <code@mdcook.net>  
Michael Darakananda <pongad@google.com>  
Michael Dorner <mail@michaeldorner.de>  
Michael Edwards <medwards@walledcity.ca>  
Michael Elkins <michael.elkins@gmail.com>  
Michael Ellis <micellis@justin.tv>  
Michael Fraenkel <michael.fraenkel@gmail.com>  
Michael Fromberger <michael.j.fromberger@gmail.com>  
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>  
Michael Henderson <mdhender@users.noreply.github.com>  
Michael Hendricks <michael@ndrix.org>  
Michael Hoisie <hoisie@gmail.com>  
Michael Hudson-Doyle <michael.hudson@linaro.org>  
Michael Kasch <michael.kasch@gmail.com>  
Michael Kufel <golang@c.michael-kaeufl.de>  
Michael Kelly <mjk@google.com>  
Michal Lvesque-Dion <mlevesquedion@google.com>  
Michael Lewis <mikelikespie@gmail.com>  
Michael  
MacInnis <Michael.P.MacInnis@gmail.com>  
Michael Marineau <michael.marineau@coreos.com>

Michael Matloob <matloob@google.com>  
Michael McConville <momconville@gmail.com>  
Michael McGreevy <mcgreevy@golang.org>  
Michael McLoughlin <mmcloughlin@gmail.com>  
Michael Munday <mike.munday@ibm.com>  
Michael Pearson <mipearson@gmail.com>  
Michael Piatek <piatek@google.com>  
Michael Pratt <mpratt@google.com>  
Michael Schaller <michael@5challer.de>  
Michael Schurter <michael.schurter@gmail.com>  
Michael Shields <mshields@google.com>  
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>  
Michael Steinert <mike.steinert@gmail.com>  
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>  
Michael Teichgrber <mteichgraeber@gmx.de> <mt4swm@googlemail.com>  
Michael Traver <mtraver@google.com>  
Michael Vetter <g.bluehut@gmail.com>  
Michael Vogt <mvo@ubuntu.com>  
Michail Kargakis <mkargaki@redhat.com>  
Michal Bohuslvek <mbohuslvek@gmail.com>  
Michal Cierniak <cierniak@google.com>  
Micha Derkacz <ziutek@lnet.pl>  
Michal  
Franc <lam.michal.franc@gmail.com>  
Michal Hruby <michal@axiom.co>  
Micha owicki <mlowicki@gmail.com>  
Michal Pristas <michal.pristas@gmail.com>  
Michal Rostecki <mrostecki@suse.de>  
Michal Stokluska <mstoklus@redhat.com>  
Michalis Kargakis <michaliskargakis@gmail.com>  
Michel Lespinasse <>walken@google.com>  
Michel Leveux <mleveux42@gmail.com>  
Michele Di Pede <michele.di.pede@gmail.com>  
Mickael Kerjean <mickael.kerjean@gmail.com>  
Mickey Reiss <mickeyreiss@gmail.com>  
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>  
Miguel Acero <acero@google.com>  
Miguel Mendez <stxmendez@gmail.com>  
Miguel Molina <hi@mvader.me>  
Mihai Borobocea <MihaiBorobocea@gmail.com>  
Mihai Moldovan <ionic@ionic.de>  
Mihai Todor <todormihai@gmail.com>  
Mihail Minaev <minaev.mike@gmail.com>  
Mikael Tillenius <mikti42@gmail.com>  
Mike Andrews <mra@xoba.com>  
Mike Appleby <mike@app.leby.org>  
Mike Danese <mikedanese@google.com>  
Mike Houston <mike@kothar.net>

Mike Kabischev <kabischev@gmail.com>  
Mike Rosset <mike.rosset@gmail.com>  
Mike  
Samuel <mikesamuel@gmail.com>  
Mike Solomon <msolo@gmail.com>  
Mike Strosaker <strosake@us.ibm.com>  
Mike Tsao <mike@sowbug.com>  
Mike Wiacek <mjwiacek@google.com>  
Mikhail Faraponov <11322032+moredure@users.noreply.github.com>  
Mikhail Fesenko <progga@gmail.com>  
Mikhail Gusarov <dottedmag@dottedmag.net>  
Mikhail Panchenko <m@mihasya.com>  
Miki Tebeka <miki.tebeka@gmail.com>  
Mikio Hara <mikioh.mikioh@gmail.com>  
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>  
Mikoaj Baranowski <mikolajb@gmail.com>  
Milan Knezevic <milan.knezevic@mips.com>  
Milan Patel <bicelot3@gmail.com>  
Milutin Jovanovic <jovanovic.milutin@gmail.com>  
MinJae Kwon <mingrammer@gmail.com>  
Miquel Sabat Sol <mikisabate@gmail.com>  
Mirko Hansen <baaazen@gmail.com>  
Miroslav Genov <mgenov@gmail.com>  
Misty De Meo <mistydemeo@gmail.com>  
Mohamed Attahri <mohamed@attahri.com>  
Mohit Agarwal <mohit@sdf.org>  
Mohit kumar Bajoria <mohitbajo36@gmail.com>  
Mohit Verma <vmohit.93@gmail.com>  
Momchil Velikov <momchil.velikov@gmail.com>  
Monis  
Khan <mkhan@redhat.com>  
Monty Taylor <mordred@inaugust.com>  
Moritz Fain <moritz@fain.io>  
Moriyoshi Koizumi <mozo@mozo.jp>  
Morten Siebuhr <sbhr@sbhr.dk>  
Mshe van der Sterre <moshevds@gmail.com>  
Mostafa Solati <mostafa.solati@gmail.com>  
Mostyn Bramley-Moore <mostyn@antipode.se>  
Mrunal Patel <mrunalp@gmail.com>  
Muhammad Falak R Wani <falakreyaz@gmail.com>  
Muhammad Hamza Farrukh <hamzafarrukh141@gmail.com>  
Muhammed Uluyol <uluyol0@gmail.com>  
Muir Manders <muir@mnd.rs>  
Mukesh Sharma <sharma.mukesh439@gmail.com>  
Mura Li <mura\_li@castech.com.tw>  
Mykhailo Lesyk <mikhail@lesyk.org>  
Nahum Shalman <nahamu@gmail.com>  
Naman Aggarwal <aggarwal.nam@gmail.com>

Naman Gera <namangera15@gmail.com>  
Nan Deng <monnand@gmail.com>  
Nao Yonashiro <owan.orisano@gmail.com>  
Naoki Kanatani <k12naoki@gmail.com>  
Natanael Copa <ncopa@mirantis.com>  
Nate Wilkinson <nathanwilk7@gmail.com>  
Nathan Cantelmo <n.cantelmo@gmail.com>  
Nathan Caza <mastercactapus@gmail.com>  
Nathan Dias <nathan.dias@orijtech.com>  
Nathan  
Fiscaletti <nathan.fiscaletti@vrazo.com>  
Nathan Humphreys <nkhumphreys@gmail.com>  
Nathan John Youngman <nj@nathany.com>  
Nathan Otterness <otternes@cs.unc.edu>  
Nathan P Finch <nate.finch@gmail.com>  
Nathan VanBenschoten <nvanbenschoten@gmail.com>  
Nathan Youngman <git@nathany.com>  
Nathan(yinian) Hu <nathanhu@google.com>  
Nathaniel Cook <nvcook42@gmail.com>  
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>  
Neeilan Selvalingam <neeilan96@gmail.com>  
Neelesh Chandola <neesh.c98@gmail.com>  
Nehal J Wani <nehaljw.kkd1@gmail.com>  
Neil Alexander <neilalexander@neilalexander.dev>  
Neil Lyons <nwjlyons@googlemail.com>  
Neuman Vong <neuman.vong@gmail.com>  
Neven Sajko <nsajko@gmail.com>  
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>  
Niall Sheridan <nsheridan@gmail.com>  
Nic Day <nic.day@me.com>  
Nicholas Asimov <nicholas@asimov.me>  
Nicholas Katsaros <nick@nickkatsaros.com>  
Nicholas Maniscalco <nicholas@maniscalco.com>  
Nicholas Ng <nickng@nickng.io>  
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>  
Nicholas  
Sullivan <nicholas.sullivan@gmail.com>  
Nicholas Waples <nwaples@gmail.com>  
Nick Anthony <Liberatys@outlook.com>  
Nick Cooper <nmvc@google.com>  
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>  
Nick Harper <nharper@google.com>  
Nick Kubala <nkubala@google.com>  
Nick Leli <nicholasleli@gmail.com>  
Nick Miyake <nmiyake@users.noreply.github.com>  
Nick Patavalis <nick.patavalis@gmail.com>  
Nick Petroni <npetroni@cs.umd.edu>  
Nick Robinson <nrobinson13@gmail.com>

Nick Sherron <nsherron90@gmail.com>  
Nick Smolin <nick27surgut@gmail.com>  
Nicolas BRULEZ <n.brulez@gmail.com>  
Nicolas Kaiser <nikai@nikai.net>  
Nicolas Owens <mischief@offblast.org>  
Nicolas S. Dade <nic.dade@gmail.com>  
Niek Sanders <niek.sanders@gmail.com>  
Niels Widger <niels.widger@gmail.com>  
Nigel Kerr <nigel.kerr@gmail.com>  
Nigel Tao <nigeltao@golang.org>  
Nik Nyby <nnyby@columbia.edu>  
Nikhil Benesch <nikhil.benesch@gmail.com>  
Nikita Gillmann <nikita@n0.is> <ng0@n0.is>  
Nikita Kryuchkov <nkryuchkov10@gmail.com>  
Nikita  
Melekhin <nimelehin@gmail.com>  
Nikita Vanyasin <nikita.vanyasin@gmail.com>  
Niklas Schnelle <niklas.schnelle@gmail.com>  
Niko Dziemba <niko@dziemba.com>  
Nikolay Turpitko <nikolay@turpitko.com>  
Nikson Kanti Paul <nikson.sust@gmail.com>  
Nils Larsgrd <nilsmagnus@gmail.com>  
Nir Soffer <nirsof@gmail.com>  
Niranjan Godbole <niranjan8192@gmail.com>  
Nishanth Shanmugham <nishanth.gerrard@gmail.com>  
Noah Campbell <noahcampbell@gmail.com>  
Noah Goldman <noahg34@gmail.com>  
Noah Santschi-Cooney <noah@santschi-cooney.ch>  
Noble Johnson <noblepoly@gmail.com>  
Nodir Turakulov <nodir@google.com>  
Noel Georgi <git@frezbo.com>  
Nooras Saba <saba@golang.org>  
Norberto Lopes <nlopes.ml@gmail.com>  
Norman B. Lancaster <qbradq@gmail.com>  
Nuno Cruces <ncruces@users.noreply.github.com>  
Obei Sideg <obei.sideg@gmail.com>  
Obeyda Djefal <djefobey@gmail.com>  
Odin Ugedal <odin@ugedal.com>  
Oleg Bulatov <dmage@yandex-team.ru>  
Oleg Vakheta <helginet@gmail.com>  
Oleku Konko <oleku.konko@gmail.com>  
Oling Cat <olingcat@gmail.com>  
Oliver  
Hookins <ohookins@gmail.com>  
Oliver Powell <oliverpowell84@gmail.com>  
Oliver Stenbom <ostenbom@pivotal.io>  
Oliver Tan <otan@cockroachlabs.com>  
Oliver Tonnhofer <olt@bogosoftware.com>

Olivier Antoine <olivier.antoine@gmail.com>  
Olivier Duperray <duperray.olivier@gmail.com>  
Olivier Mengue <olivier.mengue@gmail.com>  
Olivier Poitrey <rs@dailymotion.com>  
Olivier Saingre <osaingre@gmail.com>  
Olivier Wulveryck <olivier.wulveryck@gmail.com>  
Omar Jarjur <ojarjur@google.com>  
Onkar Jadhav <omjadhav2610@gmail.com>  
Ori Bernstein <ori@eigenstate.org>  
Ori Rawlings <orirawlings@gmail.com>  
Oryan Moshe <iamoryanmoshe@gmail.com>  
Osamu TONOMORI <osamingo@gmail.com>  
Oscar Sderlund <oscar.soderlund@einride.tech>  
zgr Kesim <oec-go@kesim.org>  
Pablo Caderno <kaderno@gmail.com>  
Pablo Lalloni <plalloni@gmail.com>  
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>  
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>  
Padraig Kitterick <padraigkitterick@gmail.com>  
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>  
Pan  
Chenglong <1004907659@qq.com>  
Panos Georgiadis <pgeorgiadis@suse.de>  
Pantelis Sampaziotis <psampaz@gmail.com>  
Paolo Giarrusso <p.giarrusso@gmail.com>  
Paolo Martini <mrtnpaolo@gmail.com>  
Parker Moore <parkrmoore@gmail.com>  
Parminder Singh <parmsingh101@gmail.com>  
Pascal Dierich <pascal@pascaldierich.com>  
Pascal S. de Kloe <pascal@quies.net>  
Paschalis Tsilias <paschalis.tsilias@gmail.com>  
Pasi Thkp <pasi.tahkapaa@gmail.com>  
Pat Moroney <pat@pat.email>  
Patrick Barker <barkerp@vmware.com>  
Patrick Crosby <patrick@stathat.com>  
Patrick Gavlin <pgavlin@gmail.com>  
Patrick Gundlach <gundlach@speedata.de>  
Patrick Higgins <patrick.allen.higgins@gmail.com>  
Patrick Jones <ithuriel@google.com>  
Patrick Lee <pattyshack101@gmail.com>  
Patrick Mzard <patrick@mezard.eu>  
Patrick Mylund Nielsen <patrick@patrickmn.com>  
Patrick Pelletier <pp.pelletier@gmail.com>  
Patrick Riley <pfr@google.com>  
Patrick Smith <pat42smith@gmail.com>  
Patrik Lundin <patrik@sigterm.se>  
Patrik Nyblom <pnyb@google.com>  
Paul

A Querna <paul.querna@gmail.com>  
Paul Borman <borman@google.com>  
Paul Boyd <boyd.paul2@gmail.com>  
Paul Chang <paulchang@google.com>  
Paul D. Weber <x0bdev@gmail.com>  
Paul Davis <43160081+Pawls@users.noreply.github.com>  
Paul E. Murphy <murp@ibm.com>  
Paul Forgey <paulf@tessier-ashpool.net>  
Paul Hammond <paul@paulhammond.org>  
Paul Hankin <paulhankin@google.com>  
Paul Jolly <paul@myitcv.org.uk>  
Paul Lalonde <paul.a.lalonde@gmail.com>  
Paul M Furley <paul@paulfurley.com>  
Paul Marks <pmarks@google.com>  
Paul Meyer <paul.meyer@microsoft.com>  
Paul Nasrat <pnasrat@google.com>  
Paul PISCUC <paul.piscuc@gmail.com>  
Paul Querna <pquerna@apache.org>  
Paul Rosania <paul.rosania@gmail.com>  
Paul Ruest <pruest@gmail.com>  
Paul Sbarra <Sbarra.Paul@gmail.com>  
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>  
Paul Tyng <paul@paultyng.net>  
Paul van Brouwershaven <paul@vanbrouwershaven.com>  
Paul Wankadia <junyer@google.com>  
Paulo Casaretto <pcasaretto@gmail.com>  
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>  
Paulo  
Gomes <paulo.gomes.uk@gmail.com>  
Pavel Kositsyn <kositsyn.pa@phystech.edu>  
Pavel Paulau <pavel.paulau@gmail.com>  
Pavel Watson <watsonpavel@gmail.com>  
Pavel Zinovkin <pavel.zinovkin@gmail.com>  
Pavlo Sumkin <ymkins@gmail.com>  
Pawel Knap <pawelknap88@gmail.com>  
Pawel Szczur <filemon@google.com>  
Pawe Szulik <pawel.szulik@intel.com>  
Pedro Lopez Mareque <pedro.lopez.mareque@gmail.com>  
Pei Xian Chee <luciolas1991@gmail.com>  
Pei-Ming Wu <p408865@gmail.com>  
Pen Tree <appletree2479@outlook.com>  
Peng Gao <peng.gao.dut@gmail.com>  
Percy Wegmann <ox.to.a.cart@gmail.com>  
Perry Abbott <perry.j.abbott@gmail.com>  
Petar Dambovaliev <petar.atanasov.1987@gmail.com>  
Petar Maymoukov <petarm@gmail.com>  
Peter Armitage <peter.armitage@gmail.com>  
Peter Bourgon <peter@bourgon.org>

Peter Collingbourne <pcc@google.com>  
Peter Conerly <pconerly@gmail.com>  
Peter Dotchev <dotchev@gmail.com>  
Peter Froehlich <peter.hans.froehlich@gmail.com>  
Peter Gonda <pgonda@google.com>  
Peter Hoyes <pahoyes@gmail.com>  
Peter  
Kleiweg <pkleiweg@xs4all.nl>  
Peter McKenzie <petermck@google.com>  
Peter Moody <pmoody@uber.com>  
Peter Morjan <pmorjan@gmail.com>  
Peter Mundy <go.peter.90@gmail.com>  
Peter Nguyen <peter@mictis.com>  
Pter Surnyi <speter.go1@gmail.com>  
Pter Szab <pts@google.com>  
Pter Szilgyi <peterke@gmail.com>  
Peter Teichman <pteichman@fastly.com>  
Peter Tseng <ptseng@squareup.com>  
Peter Waldschmidt <peter@waldschmidt.com>  
Peter Waller <peter.waller@gmail.com>  
Peter Weinberger <pjw@golang.org>  
Peter Williams <pwil3058@gmail.com>  
Peter Wu <pwu@cloudflare.com>  
Peter Zhang <i@ddatsh.com>  
Petr Jedin <petr.jediny@gmail.com>  
Petrica Voicu <pvoicu@paypal.com>  
Phil Pearl <philip.j.r.pearl@gmail.com>  
Phil Pennock <pdp@golang.org>  
Philip Brgesen <philip.borgesen@gmail.com>  
Philip Brown <phil@bolthole.com>  
Philip Hofer <phofer@umich.edu>  
Philip K. Warren <pkwarren@gmail.com>  
Philip Nelson <me@pnelson.ca>  
Philipp Sauter <sauterp@protonmail.com>  
Philipp Stephani <phst@google.com>  
Phillip Campbell <15082+phillc@users.noreply.github.com>  
Pierre  
Carru <pierre.carru@eshard.com>  
Pierre Durand <pierredurand@gmail.com>  
Pierre Prinetti <pierreprinetti@gmail.com>  
Pierre Roullon <pierre.roullon@gmail.com>  
Piers <google@hellopiers.pro>  
Pieter Droogendijk <pieter@binky.org.uk>  
Pietro Gagliardi <pietro10@mac.com>  
Piyush Mishra <piyush@codeitout.com>  
Plekhanov Maxim <kishtatix@gmail.com>  
Poh Zi How <poh.zihow@gmail.com>  
Polina Osadcha <polliosa@google.com>



Pontus Leitzler <leitzler@gmail.com>  
Povilas Versockas <p.versockas@gmail.com>  
Prajwal Koirala <16564273+Prajwal-Koirala@users.noreply.github.com>  
Prasanga Siripala <pj@pjebs.com.au>  
Prasanna Swaminathan <prasanna@mediamath.com>  
Prashant Agrawal <prashant.a.vjti@gmail.com>  
Prashant Varanasi <prashant@prashantv.com>  
Praveen Kumar <praveen+git@kumar.in>  
Pravendra Singh <hackpravj@gmail.com>  
Preetam Jinka <pj@preet.am>  
Pure White <wu.purewhite@gmail.com>  
Qais Patankar <qaisjp@gmail.com>  
Qiuxuan Zhu <ilsh1022@gmail.com>  
Quan Tran <qeed.quan@gmail.com>  
Quan Yong  
Zhai <qyzhai@gmail.com>  
Quentin Perez <qperez@ocs.online.net>  
Quentin Renard <contact@asticode.com>  
Quentin Smith <quentin@golang.org>  
Quey-Liang Kao <s101062801@m101.nthu.edu.tw>  
Quim Muntal <quimmuntal@gmail.com>  
Quinn Slack <sqs@sourcegraph.com>  
Quinten Yearsley <qyearsley@chromium.org>  
Quoc-Viet Nguyen <afelion@gmail.com>  
Rabin Gaire <rabingaire20@gmail.com>  
Radek Simko <radek.simko@gmail.com>  
Radek Sohlich <sohlich@gmail.com>  
Radu Berinde <radu@cockroachlabs.com>  
Rafal Jeczalik <rjeczalik@gmail.com>  
Raghavendra Nagaraj <jamdagni86@gmail.com>  
Rahul Bajaj <rahulrb0509@gmail.com>  
Rahul Chaudhry <rahulchaudhry@chromium.org>  
Rahul Wadhvani <rahulwadhvani21@gmail.com>  
Raif S. Naffah <go@naffah-raif.name>  
Rajat Goel <rajat.goel2010@gmail.com>  
Rajath Agasthya <rajathagasthya@gmail.com>  
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>  
Ralph Corderoy <ralph@inputplus.co.uk>  
Ramazan AYYILDIZ <rayyildiz@gmail.com>  
Ramesh Dharan <dharan@google.com>  
Randy Reddig <randy@alta.software>  
Raph  
Levien <raph@google.com>  
Raphael Geronimi <raphael.geronimi@gmail.com>  
Raul Silvera <rsilvera@google.com>  
Ravil Bikbulatov <weeellz12@gmail.com>  
RaviTeja Pothana <ravi.tezu@gmail.com>  
Ray Tung <rtung@thoughtworks.com>

Ray Wu <ray@liftoff.io>  
Raymond Kazlauskas <raima220@gmail.com>  
Rebecca Stambler <rstambler@golang.org>  
Reilly Watson <reillywatson@gmail.com>  
Reinaldo de Souza Jr <juniorz@gmail.com>  
Remi Gillig <remigillig@gmail.com>  
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>  
Ren Ogaki <re.yuz77777@gmail.com>  
Rens Rikkerink <Ikkerens@users.noreply.github.com>  
Rhys Hiltner <rhys@justin.tv>  
Ricardo Padilha <ricardospadilha@gmail.com>  
Ricardo Pchevuzinske Katz <ricardo.katz@serpro.gov.br>  
Ricardo Seriani <ricardo.seriani@gmail.com>  
Rich Hong <hong.rich@gmail.com>  
Richard Barnes <rlb@ipv.sx>  
Richard Crowley <r@rcrowley.org>  
Richard Dingwall <rdingwall@gmail.com>  
Richard Eric Gavaletz <gavaletz@gmail.com>  
Richard Gibson <richard.gibson@gmail.com>  
Richard  
Miller <miller.research@gmail.com>  
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>  
Richard Pickering <richard.pickering@hotmail.co.uk>  
Richard Ulmer <codesoap@mailbox.org>  
Richard Wilkes <wilkes@me.com>  
Rick Arnold <rickarnoldjr@gmail.com>  
Rick Hudson <rlh@golang.org>  
Rick Sayre <whorfin@gmail.com>  
Rijnard van Tonder <rvantonder@gmail.com>  
Riku Voipio <riku.voipio@linaro.org>  
Riley Avron <ra.git@posteo.net>  
Risto Jaakko Saarelm <rsaarelm@gmail.com>  
Rob Earhart <earhart@google.com>  
Rob Findley <rfindley@google.com>  
Rob Norman <rob.norman@infinitycloud.com>  
Rob Phoenix <rob@robphoenix.com>  
Rob Pike <r@golang.org>  
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>  
Robert Burke <rebo@google.com>  
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>  
Robert Dinu <r@varp.se>  
Robert Engels <rengels@ix.netcom.com>  
Robert Figueiredo <robfig@gmail.com>  
Robert Griesemer <gri@golang.org>  
Robert Hencke <robert.hencke@gmail.com>  
Robert Iannucci <iannucci@google.com>  
Robert

Kuska <rkuska@gmail.com>  
Robert Obryk <robryk@gmail.com>  
Robert Seseek <rseseek@google.com>  
Robert Snedegar <roberts@google.com>  
Robert Stepanek <robert.stepanek@gmail.com>  
Robert van Gent <rvangent@google.com>  
Robert-Andr Mauchin <zebob.m@gmail.com>  
Roberto Clapis <robclap8@gmail.com>  
Roberto Selbach <roberto@selbach.ca>  
Robin Eklind <r.eklind.87@gmail.com>  
Robin Zhong <robin@robinzhong.co>  
Rodolfo Carvalho <rhcarvalho@gmail.com>  
Rodolfo Rodriguez <rodolfobgibson@gmail.com>  
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>  
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>  
Roger Pau Monn <royger@gmail.com>  
Roger Peppe <rogpeppe@gmail.com>  
Rohan Challa <rohan@golang.org>  
Rohan Verma <rohanverma2004@gmail.com>  
Rohith Ravi <entombedvirus@gmail.com>  
Roi Martin <jroi.martin@gmail.com>  
Roland Illig <roland.illig@gmx.de>  
Roland Shoemaker <rolandshoemaker@gmail.com>  
Romain Bague <romain.bague@elwinar.com>  
Roman Budnikov <romanyx90@yandex.ru>  
Roman Kollr <roman.kollar.0@gmail.com>  
Roman  
Shchekin <mrqtros@gmail.com>  
Ron Hashimoto <mail@h2so5.net>  
Ron Minnich <rminnich@gmail.com>  
Ronnie Ebrin <ebrin.ronnie@protonmail.com>  
Ross Chater <rdchater@gmail.com>  
Ross Kinsey <rossikinsey@gmail.com>  
Ross Light <light@google.com> <rlight2@gmail.com>  
Ross Smith II <ross@smithii.com>  
Rowan Marshall <rowanajmarshall@gmail.com>  
Rowan Worth <sqweek@gmail.com>  
Rudi Kramer <rudi.kramer@gmail.com>  
Rui Ueyama <ruiiu@google.com>  
Ruixin Bao <ruixin.bao@ibm.com>  
Ruslan Andreev <ruslan.andreev@huawei.com>  
Ruslan Nigmatullin <elessar@dropbox.com>  
Russ Cox <rsc@golang.org>  
Russell Haering <russellhaering@gmail.com>  
Ryan Bagwell <ryanbagwell@outlook.com>  
Ryan Barrett <ryanb@google.com>  
Ryan Boehning <ryan.boehning@apcera.com>  
Ryan Brown <ribrdb@google.com>

Ryan Canty <jrcanty@gmail.com>  
Ryan Dahl <ry@tinyclouds.org>  
Ryan Hitchman <hitchmanr@gmail.com>  
Ryan Kohler <ryankohler@google.com>  
Ryan Leung <rleungx@gmail.com>  
Ryan Lower <rpjlower@gmail.com>  
Ryan Roden-Corrent <ryan@rcorre.net>  
Ryan  
Seys <ryan@ryanseys.com>  
Ryan Slade <ryanslade@gmail.com>  
Ryan Zhang <ryan.zhang@docker.com>  
Ryoichi KATO <ryo1kato@gmail.com>  
Ryoya Sekino <ryoyasekino1993@gmail.com>  
Ryuji Iwata <qt.luigi@gmail.com>  
Ryuma Yoshida <ryuma.y1117@gmail.com>  
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>  
S.alar Onur <caglar@10ur.org>  
Sabin Mihai Rapan <sabin.rapan@gmail.com>  
Sad Pencil <qh06@qq.com>  
Sai Cheemalapati <saicheems@google.com>  
Sai Kiran Dasika <kirandasika30@gmail.com>  
Sakeven Jiang <jc5930@sina.cn>  
Salaheddin M. Mahmud <salah.mahmud@gmail.com>  
Salmn Aljammz <s@0x65.net>  
Sam Arnold <sarnold64@bloomberg.net>  
Sam Boyer <tech@samboyer.org>  
Sam Chen <chenxsan@gmail.com>  
Sam Cross <samgcdev@gmail.com>  
Sam Ding <samding@ca.ibm.com>  
Sam Hug <samuel.b.hug@gmail.com>  
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>  
Sam Whited <sam@samwhited.com>  
Sam Xie <xsambundy@gmail.com>  
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>  
Sami Commerot <samic@google.com>  
Sami Pnknen <sami.ponkanen@gmail.com>  
Samuel  
Kelemen <SCKelemen@users.noreply.github.com>  
Samuel Tan <samueltan@google.com>  
Samuele Pedroni <pedronis@lucediaruna.net>  
San Ye <xyesan@gmail.com>  
Sander van Harmelen <sander@vanharmelen.nl>  
Sanjay Menakuru <balasanjay@gmail.com>  
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>  
Santiago De la Cruz <51337247+xhit@users.noreply.github.com>  
Sarah Adams <shadams@google.com>  
Sardorbek Pulatov <sardorbek.pulatov@outlook.com>  
Sascha Brawer <sascha@brawer.ch>

Sasha Lionheart <lionhearts@google.com>  
Sasha Sobol <sasha@scaledinference.com>  
Satoru Kitaguchi <rule.the.fate.myfirststory@gmail.com>  
Scott Barron <scott.barron@github.com>  
Scott Bell <scott@sctsm.com>  
Scott Cotton <scott@mindowl.com>  
Scott Crunkleton <crunk1@gmail.com>  
Scott Ferguson <scottwferg@gmail.com>  
Scott Lawrence <bytbox@gmail.com>  
Scott Mansfield <smansfield@netflix.com>  
Scott Ragan <ragansa@fb.com>  
Scott Schwartz <scotts@golang.org>  
Scott Van Woudenberg <scottvw@google.com>  
Sean Burford <sburford@google.com>  
Sean  
Chen <oohcode@gmail.com>  
Sean Chittenden <seanc@joyent.com>  
Sean Christopherson <sean.j.christopherson@intel.com>  
Sean Dolphin <Sean.Dolphin@kpcompass.com>  
Sean Harger <sharger@google.com>  
Sean Harrington <sean.harrington@leftfieldlabs.com>  
Sean Hildebrand <seanwildebrand@gmail.com>  
Sean Liao <seankhliao@gmail.com>  
Sean Rees <sean@erifax.org>  
Sebastiaan van Stijn <github@gone.nl>  
Sebastian Chlopecki <sebsebmc@gmail.com>  
Sebastian Kinne <skinne@google.com>  
Sebastian Schmidt <yath@google.com>  
Sebastien Binet <seb.binet@gmail.com>  
Sbastien Paolacci <sebastien.paolacci@gmail.com>  
Sebastien Williams-Wynn <sebastien@cytora.com>  
Segev Finer <segev208@gmail.com>  
Seiji Takahashi <timaki.st@gmail.com>  
Sergei Lemeshkin <sergeilem@gmail.com>  
Sergei Skorobogatov <skorobo@rambler.ru>  
Sergei Zagurskii <gvozdoder@gmail.com>  
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>  
Sergey Arseev <sergey.arseev@intel.com>  
Sergey Dobrodey <sergey.dobrodey@synesis.ru>  
Sergey Frolov <sfrolov@google.com>  
Sergey Glushchenko  
<gsserge@gmail.com>  
Sergey Ivanov <ser1325@gmail.com>  
Sergey Kacheev <S.Kacheev@gmail.com>  
Sergey Lukjanov <me@slukjanov.name>  
Sergey Mishin <sergeymishine@gmail.com>  
Sergey Mudrik <sergey.mudrik@gmail.com>  
Sergey Semin <gray12511@gmail.com>

Sergey Yanykin <syanykin@ozon.ru>  
Sergio Luis O. B. Correia <sergio@correia.cc>  
Sergiusz Bazanski <bazanski@gmail.com>  
Serhat Giydiren <serhatgydiren@gmail.com>  
Serhii Aheienko <serhii.aheienko@gmail.com>  
Seth Hoenig <seth.a.hoenig@gmail.com>  
Seth Vargo <sethvargo@gmail.com>  
Shaba Abhiram <shabarivas.abhiram@gmail.com>  
Shahar Kohanim <skohanim@gmail.com>  
Shailesh Suryawanshi <ss.shailesh28@gmail.com>  
Shamil Garatuev <garatuev@gmail.com>  
Shamim Akhtar <shamim.rhce@gmail.com>  
Shane Hansen <shanemhansen@gmail.com>  
Shang Jian Ding <sdj3@ncsu.edu>  
Shaozhen Ding <dsz0111@gmail.com>  
Shaquille Que <shaquille@golang.org>  
Shaquille Wyan Que <shaqywyuan@gmail.com>  
Shaun Dunning <shaun.dunning@uservoice.com>  
Shawn Elliott <sellott@microsoft.com>  
Shawn  
Ledbetter <sledbetter@google.com>  
Shawn Smith <shawn.p.smith@gmail.com>  
Shawn Walker-Salas <shawn.walker@oracle.com>  
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>  
Shengjing Zhu <zsj950618@gmail.com>  
Shengyu Zhang <shengyu.zhang@chaitin.com>  
Shi Han Ng <shihanng@gmail.com>  
ShihCheng Tu <mrtoastcheng@gmail.com>  
Shijie Hao <haormj@gmail.com>  
Shin Fan <shinfan@google.com>  
Shinji Tanaka <shinji.tanaka@gmail.com>  
Shinnosuke Sawada <6warashi9@gmail.com>  
Shintaro Kaneko <kaneshin0120@gmail.com>  
Shivakumar GN <shivakumar.gn@gmail.com>  
Shivani Singhal <shivani.singhal2804@gmail.com>  
Shivansh Rai <shivansh@freebsd.org>  
Shivashis Padhi <shivashispadhi@gmail.com>  
Shoshin Nikita <shoshin\_nikita@fastmail.com>  
Shota Sugiura <s.shota.710.3506@gmail.com>  
Shubham Sharma <shubham.sha12@gmail.com>  
Shuhei Takahashi <nya@chromium.org>  
Shun Fan <sfan@google.com>  
Silvan Jegen <s.jegen@gmail.com>  
Simo Gomes Viana <simaogmv@gmail.com>  
Simarpreet Singh <simar@linux.com>  
Simon Drake <simondrake1990@gmail.com>  
Simon

Ferquel <simon.ferquel@docker.com>  
Simon Frei <freisim93@gmail.com>  
Simon Jefford <simon.jefford@gmail.com>  
Simon Law <sflaw@sflaw.ca>  
Simon Rawet <simon@rawet.se>  
Simon Rozman <simon@rozman.si>  
Simon Ser <contact@emersion.fr>  
Simon Thulbourn <simon+github@thulbourn.com>  
Simon Whitehead <chemnova@gmail.com>  
Sina Siadat <siadat@gmail.com>  
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>  
Sokolov Yura <funny.falcon@gmail.com>  
Song Gao <song@gao.io>  
Song Lim <songlim327@gmail.com>  
Songjiayang <songjiayang1@gmail.com>  
Songlin Jiang <hollowman@hollowman.ml>  
Soojin Nam <jsunam@gmail.com>  
Sren L. Hansen <soren@linux2go.dk>  
Sparrow Li <liyuanclx@gmail.com>  
Spencer Kocot <spencerkocot@gmail.com>  
Spencer Nelson <s@spenczar.com>  
Spencer Tung <spencertung@google.com>  
Spenser Black <spenserblack01@gmail.com>  
Spring Mc <heresy.mc@gmail.com>  
Srdjan Petrovic <spetrovic@google.com>  
Sridhar Venkatakrishnan <sridhar@laddoo.net>  
Srinidhi Kaushik <shrinidhi.kaushik@gmail.com>  
StalkR <stalkr@stalkr.net>  
Stan  
Hu <stanhu@gmail.com>  
Stan Schwertly <stan@schwertly.com>  
Stanislav Afanasev <php.progger@gmail.com>  
Steeve Morin <steeve.morin@gmail.com>  
Stefan Baebler <sbaebler@outbrain.com>  
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>  
Stepan Shabalin <neverliberty@gmail.com>  
Stephan Klatt <stephan.klatt@gmail.com>  
Stephan Rénatus <srenatus@chef.io>  
Stephan Zuercher <zuercher@gmail.com>  
Stphane Travostino <stephane.travostino@gmail.com>  
Stephen Lewis <stephen@sock.org.uk>  
Stephen Lu <steuhs@users.noreply.github.com>  
Stephen Ma <stephenm@golang.org>  
Stephen McQuay <stephen@mcquay.me>  
Stephen Searles <stephens2424@gmail.com>  
Stephen Weinberg <stephen@q5comm.com>  
Steve Francia <spf@golang.org>  
Steve Gilbert <stevegilbert23@gmail.com>

Steve LoFurno <slofurno@gmail.com>  
Steve McCoy <mccoyst@gmail.com>  
Steve Mynott <steve.mynott@gmail.com>  
Steve Newman <snewman@google.com>  
Steve Phillips <elimistev@gmail.com>  
Steve Streeting <steve@stevestreeting.com>  
Steve Traut <straut@google.com>  
Steven  
Buss <sbuss@google.com>  
Steven Elliot Harris <seharris@gmail.com>  
Steven Erenst <stevenerenst@gmail.com>  
Steven Hartland <steven.hartland@multiplay.co.uk>  
Steven Littiebrant <imgroxx@gmail.com>  
Steven Maude <git@stevenmaude.co.uk>  
Steven Wilkin <stevenwilkin@gmail.com>  
Stuart Jansen <sjansen@buscaluz.org>  
Subham Sarkar <sarkar.subhams2@gmail.com>  
Sue Spence <virtuallysue@gmail.com>  
Sugu Sougoumarane <ssougou@gmail.com>  
Suharsh Sivakumar <suharshs@google.com>  
Sukrit Handa <sukrit.handa@utoronto.ca>  
Sunny <me@darkowlzz.space>  
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>  
Suvaditya Sur <suvaditya.sur@gmail.com>  
Suyash <dextrous93@gmail.com>  
Suzy Mueller <suzmue@golang.org>  
Sven Almgren <sven@tras.se>  
Sven Blumenstein <svbl@google.com>  
Sven Lee <lee1300394324@gmail.com>  
Sven Taute <sven.taute@gmail.com>  
Sylvain Zimmer <sylvain@sylvainzimmer.com>  
Syohei YOSHIDA <syohex@gmail.com>  
Szabolcs Nagy <nsz@port70.net>  
Taavi Kivisik <taavi.kivisik@gmail.com>  
Tad Fisher <tadfisher@gmail.com>  
Tad  
Glines <tad.glines@gmail.com>  
Tadas Valiukas <tadovas@gmail.com>  
Tadeo Kondrak <me@tadeo.ca>  
Taesu Pyo <pyotaesu@gmail.com>  
Tai Le <letientai299@gmail.com>  
Taj Khattrra <taj.khattrra@gmail.com>  
Takashi Matsuo <tmatsuo@google.com>  
Takashi Mima <tkm1205@gmail.com>  
Takayoshi Nishida <takayoshi.nishida@gmail.com>  
Takeshi YAMANASHI <9.nashi@gmail.com>  
Takuto Ikuta <tikuta@google.com>  
Takuya Ueda <uedatakuya@gmail.com>



Tal Shprecher <tshprecher@gmail.com>  
Tams Gulcsi <tgulacsi78@gmail.com>  
Tamir Duberstein <tamird@gmail.com>  
Tao Qingyun <qingyunha@gmail.com>  
Tao Shen <shentaoskyking@gmail.com>  
Tao Wang <twang2218@gmail.com>  
Tarmigan Casebolt <tarmigan@gmail.com>  
Taro Aoki <aizu.s1230022@gmail.com>  
Taru Karttunen <taruti@taruti.net>  
Tatsuhiko Tsujikawa <tatsuhiko.t@gmail.com>  
Tatsuya Kaneko <m.ddotx.f@gmail.com>  
Taufiq Rahman <taufiqrx8@gmail.com>  
Teague Cole <tnc1443@gmail.com>  
Ted Kornish <golang@tedkornish.com>  
Tejasvi Nareddy <tejunareddy@gmail.com>  
Terin Stock <terinjokes@gmail.com>  
Terrel  
Shumway <gopher@shumway.us>  
Tetsuo Kiso <tetsuokiso9@gmail.com>  
Than McIntosh <thanm@google.com>  
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>  
Thanatat Tamtan <acoshift@gmail.com>  
The Hatsune Daishi <nao20010128@gmail.com>  
Thiago Avelino <t@avelino.xxx>  
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>  
Thom Wiggers <thom@thomwiggers.nl>  
Thomas Alan Copeland <talan.copeland@gmail.com>  
Thomas Bonfort <thomas.bonfort@gmail.com>  
Thomas Bouldin <inlined@google.com>  
Thomas Bruyelle <thomas.bruyelle@gmail.com>  
Thomas Bushnell, BSG <tbushnell@google.com>  
Thomas de Zeeuw <thomasdezeeuw@gmail.com>  
Thomas Desrosiers <thomasdesr@gmail.com>  
Thomas Habets <habets@google.com>  
Thomas Kappler <tkappler@gmail.com>  
Thomas Meson <zllak@hycik.org>  
Thomas Symborski <thomas.symborski@gmail.com>  
Thomas Wanielista <tomwans@gmail.com>  
Thorben Krueger <thorben.krueger@gmail.com>  
Thordur Bjornsson <thorduri@secnorth.net>  
Tiago Peczenyj <tpeczenyj@weborama.com>  
Tiago  
Queiroz <contato@tiago.eti.br>  
Tianji Wu <the729@gmail.com>  
Tianon Gravi <admwiggin@gmail.com>  
Tilman Dilo <tilman.dilo@gmail.com>  
Tim Cooijmans <timcooijmans@gmail.com>  
Tim Cooper <tim.cooper@layeh.com>

Tim Ebringer <tim.ebringer@gmail.com>  
Tim Heckman <t@heckman.io>  
Tim Henderson <tim.tadh@gmail.com>  
Tim Hockin <thockin@google.com>  
Tim King <taking@google.com>  
Tim Mhlmann <muhlemmer@gmail.com>  
Tim Swast <swast@google.com>  
Tim Wright <tenortim@gmail.com>  
Tim Xu <xiaoxubeii@gmail.com>  
Timmy Douglas <timmyd983@gmail.com>  
Timo Savola <timo.savola@gmail.com>  
Timo Truys <alkaloid.btx@gmail.com>  
Timothy Gu <timothygu99@gmail.com>  
Timothy Studd <tim@timestudd.com>  
Tipp Moseley <tipp@google.com>  
Tiwei Bie <tiwei.btw@antgroup.com>  
Tobias Assarsson <tobias.assarsson@gmail.com>  
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>  
Tobias Klauser <tklauser@distanz.ch>  
Tobias Kohlbau <tobias@kohlbau.de>  
Toby Burrell <kurin@google.com>  
Todd Kulesza <tkulesza@google.com>  
Todd  
Neal <todd@tneal.org>  
Todd Wang <toddwang@gmail.com>  
Tom Anthony <git@tomanthony.co.uk>  
Tom Bergan <tombergan@google.com>  
Tom Freudenberg <tom.freudenberg@4commerce.de>  
Tom Heng <zhm20070928@gmail.com>  
Tom Lanyon <tomlanyon@google.com>  
Tom Levy <tomlevy93@gmail.com>  
Tom Limoncelli <tal@whatexit.org>  
Tom Linfoord <tomlinfoord@gmail.com>  
Tom Panton <tom@tomandtally.co.uk>  
Tom Parkin <tom.parkin@gmail.com>  
Tom Payne <twpayne@gmail.com>  
Tom Szymanski <tgs@google.com>  
Tom Thorogood <me+google@tomthorogood.co.uk>  
Tom Wilkie <tom@weave.works>  
Tom Zierbock <tomzierbock@gmail.com>  
Tomas Dabasinskas <tomas@dabasinskas.net>  
Tommy Schaefer <tommy.schaefer@teecom.com>  
Tomohiro Kusumoto <zabio1192@gmail.com>  
Tomoya Ishizaki <zaq1tomo@gmail.com>  
Tonis Tiigi <tonistiigi@gmail.com>  
Tony Reix <tony.reix@bull.net>  
Tony Walker <walkert.uk@gmail.com>  
Tooru Takahashi <tooru.takahashi134@gmail.com>

Tor Andersson <tor.andersson@gmail.com>  
Torben Schinke <torben.schinke@neotos.de>  
Tormod Erevik Lea <tormodlea@gmail.com>  
Toshihiro  
Shiino <shiino.toshihiro@gmail.com>  
Toshiki Shima <hayabusa1419@gmail.com>  
Totoro W <tw19881113@gmail.com>  
Travis Bischel <travis.bischel@gmail.com>  
Travis Cline <travis.cline@gmail.com>  
Trevor Dixon <trevordixon@gmail.com>  
Trevor Strohman <trevor.strohman@gmail.com>  
Trey Lawrence <lawrence.trey@gmail.com>  
Trey Roessig <trey.roessig@gmail.com>  
Trey Tacon <ttacon@gmail.com>  
Tristan Amini <tamini01@ca.ibm.com>  
Tristan Colgate <tcolgate@gmail.com>  
Tristan Oohry <ooohry@gmail.com>  
Tristan Rice <rice@fn.lc>  
Troels Thomsen <troels@thomsen.io>  
Trong Bui <trong.buiquoc@gmail.com>  
Trung Nguyen <trung.n.k@gmail.com>  
Tsuji Daishiro <dram.dt.shonan@gmail.com>  
Tudor Golubenco <tudor.g@gmail.com>  
Tugdual Saunier <tugdual.saunier@gmail.com>  
Tuo Shan <sturbo89@gmail.com> <shantuo@google.com>  
Tyler Bui-Palsulich <tpalsulich@google.com>  
Tyler Bunnell <tylerbunnell@gmail.com>  
Tyler Treat <ttreat31@gmail.com>  
Tyson Andre <tysonandre775@gmail.com>  
Tzach Shabtay <tzachshabtay@gmail.com>  
Tzu-Chiao  
Yeh <su3g4284zo6y7@gmail.com>  
Tzu-Jung Lee <roylee17@currant.com>  
Udalov Max <re.udalov@gmail.com>  
Uddeshya Singh <singhuddeshyaofficial@gmail.com>  
Ugorji Nwoke <ugorji@gmail.com>  
Ulf Holm Nielsen <doktor@dyregod.dk>  
Ulrich Kunitz <uli.kunitz@gmail.com>  
Umang Parmar <umangjparmar@gmail.com>  
Uriel Mangado <uriel@berlinblue.org>  
Urvil Patel <patelurvil38@gmail.com>  
Utkarsh Dixit <53217283+utkarsh-extc@users.noreply.github.com>  
Uttam C Pawar <uttam.c.pawar@intel.com>  
Vadim Grek <vadimprog@gmail.com>  
Vadim Vygonets <unixdj@gmail.com>  
Val Polouchkine <vpolouch@justin.tv>  
Valentin Vidic <vvidic@valentin-vidic.from.hr>  
Vaughn Iverson <vsivsi@yahoo.com>

Vee Zhang <veezhang@126.com> <vveezhang@gmail.com>  
Vega Garcia Luis Alfonso <vegacom@gmail.com>  
Venil Noronha <veniln@vmware.com>  
Veselkov Konstantin <kostozyb@gmail.com>  
Viacheslav Poturaev <vearutop@gmail.com>  
Victor Chudnovsky <vchudnov@google.com>  
Victor Michel <victor@optimize.cloud>  
Victor Vrantchan <vrancean+github@gmail.com>  
Vignesh  
Ramachandra <vickyramachandra@gmail.com>  
Vikas Kedia <vikask@google.com>  
Ville Skytt <ville.skytta@iki.fi>  
Vincent Ambo <tazjin@googlemail.com>  
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>  
Vincent Vanackere <vincent.vanackere@gmail.com>  
Vinu Rajashekhar <vinutheraj@gmail.com>  
Vish Subramanian <vish@google.com>  
Vishal Dalwadi <dalwadivishal26@gmail.com>  
Vishvananda Ishaya <vishvananda@gmail.com>  
Visweswara R <r.visweswara@gmail.com>  
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>  
Vitor De Mario <vitordemario@gmail.com>  
Vivek Sekhar <vsekhar@google.com>  
Vivek V <iamvivekv96@gmail.com>  
Vivian Liang <vliang88@gmail.com>  
Vlad Krasnov <vlad@cloudflare.com>  
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>  
Vladimir Kovpak <cn007b@gmail.com>  
Vladimir Kuzmin <vkuzmin@uber.com>  
Vladimir Mihailenco <vladimir.webdev@gmail.com>  
Vladimir Nikishenko <vova616@gmail.com>  
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>  
Vladimir Varankin <nek.narqo@gmail.com>  
Vojtech Bocek <vbocek@gmail.com>  
Volker  
Dobler <dr.volker.dobler@gmail.com>  
Volodymyr Paprotsky <vpaprots@ca.ibm.com>  
Vyacheslav Pachkov <slava.pach@gmail.com>  
W. Trevor King <wking@tremily.us>  
Wade Simmons <wade@wades.im>  
Wagner Riffel <wgriffel@gmail.com>  
Walt Della <walt@javins.net>  
Walter Poupore <wpoupore@google.com>  
Wander Lairson Costa <wcosta@mozilla.com>  
Wang Xuerui <git@xen0n.name>  
Warren Fernandes <warren.f.fernandes@gmail.com>  
Wayne Ashley Berry <wayneashleyberry@gmail.com>  
Wedson Almeida Filho <wedsonaf@google.com>

Weerasak Chongnguluam <singpor@gmail.com>  
Wi Cngru <crvv.mail@gmail.com>  
Wei Fu <fhfuwei@163.com>  
Wei Guangjing <vcc.163@gmail.com>  
Wei Xiao <wei.xiao@arm.com>  
Wei Xikai <xykwei@gmail.com>  
Weichao Tang <tevic.tt@gmail.com>  
Weilu Jia <optix2000@gmail.com>  
Weixie Cui <cuiweixie@gmail.com> <523516579@qq.com>  
Wembley G. Leach, Jr <wembley.gl@gmail.com>  
Wenlei (Frank) He <wlhe@google.com>  
Wenzel Lowe <lowewenzel@gmail.com>  
Wil Selwood <wselwood@gmail.com>  
Wilfried Teiken <wteiken@google.com>  
Will  
Beason <willbeason@gmail.com>  
Will Chan <willchan@google.com>  
Will Faught <will.faught@gmail.com>  
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>  
Will Norris <willnorris@google.com>  
Will Storey <will@summercat.com>  
Willem van der Schyff <willemvds@gmail.com>  
William Chan <willchan@chromium.org>  
William Chang <mr.williamchang@gmail.com>  
William Josephson <wjosephson@gmail.com>  
William Langford <wlangfor@gmail.com>  
William Orr <will@worrbase.com> <ay1244@gmail.com>  
William Poussier <william.poussier@gmail.com>  
Wisdom Omuya <deafgoat@gmail.com>  
Wu Yunzhou <yunzhouwu@gmail.com>  
Xi Ruoyao <xry23333@gmail.com>  
Xia Bin <snyh@snyh.org>  
Xiangdong Ji <xiangdong.ji@arm.com>  
Xiaodong Liu <teaofmoli@gmail.com>  
Xing Gao <18340825824@163.com>  
Xing Xing <mikespook@gmail.com>  
Xingqiang Bai <bxq2011hust@qq.com>  
Xu Fei <badgangkiller@gmail.com>  
Xudong Zhang <felixmelon@gmail.com>  
Xudong Zheng <7pkvm5aw@slicealias.com>  
Xuyang Kang <xuyangkang@gmail.com>  
Yamagishi Kazutoshi <ykzts@desire.sh>  
Yan  
Zou <yzou@google.com>  
Yang Hau <vulxj0j8j8@gmail.com>  
Yang Tian <linuxty@gmail.com>  
Yann Hodique <yhodique@google.com>  
Yann Kerherv <yann.kerherve@gmail.com>

Yann Salan <yannsalaun1@gmail.com>  
Yannic Bonenberger <contact@yannic-bonenberger.com>  
Yao Zhang <lunaria21@gmail.com>  
Yaron de Leeuw <jarondl@google.com>  
Yaroslav Vorobiov <yar.vorobiov@gmail.com>  
Yasha Bubnov <girokompas@gmail.com>  
Yasser Abdolmaleki <yasser@yasser.ca>  
Yasuharu Goto <matope.ono@gmail.com>  
Yasuhiro Matsumoto <mattn.jp@gmail.com>  
Yasutaka Shinzaki <shinzaki@yasu26.tech>  
Yasuyuki Oka <yasuyk@gmail.com>  
Yazen Shunnar <yazen.shunnar@gmail.com>  
Yestin Sun <ylh@pdx.edu>  
Yesudeep Mangalapilly <yesudeep@google.com>  
Yissakhar Z. Beck <yissakhar.beck@gmail.com>  
Yo-An Lin <yoanlin93@gmail.com>  
Yohei Takeda <yo.tak0812@gmail.com>  
Yongjian Xu <i3dmaster@gmail.com>  
Yorman Arias <cixtords@gmail.com>  
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>  
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>  
Yosuke Akatsuka  
<yosuke.akatsuka@gmail.com>  
Youfu Zhang <zhangyoufu@gmail.com>  
Yu Heng Zhang <annita.zhang@cn.ibm.com>  
Yu Xuan Zhang <zyxsh@cn.ibm.com>  
Yu, Li-Yu <afg984@gmail.com>  
Yuichi Kishimoto <yk2220s@gmail.com>  
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>  
Yuji Yaginuma <yuuji.yaginuma@gmail.com>  
Yuki Ito <mrno110y@gmail.com>  
Yuki OKUSHI <huyuumi.dev@gmail.com>  
Yuki Osaki <yuki.osaki7@gmail.com>  
Yuki Yugui Sonoda <yugui@google.com>  
Yukihiro Nishinaka <6elpinal@gmail.com>  
YunQiang Su <syq@debian.org>  
Yuntao Wang <ytcoode@gmail.com>  
Yury Smolsky <yury@smolsky.by>  
Yusuke Kagiwada <block.rxckin.beats@gmail.com>  
Yuusei Kuwana <kuwana@kumama.org>  
Yuval Pavel Zholkover <paulzhol@gmail.com>  
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>  
Zac Bergquist <zbergquist99@gmail.com>  
Zach Bintliff <zbintliff@gmail.com>  
Zach Gershman <zachgersh@gmail.com>  
Zach Hoffman <zrhoffman@apache.org>  
Zach Jones <zachj1@gmail.com>  
Zachary Amsden <zach@thundertoken.com>

Zachary Burkett <zburkett@splitcubestudios.com>  
Zachary  
Gershman <zgershman@pivotal.io>  
Zaiyang Li <zaiyangli777@gmail.com>  
Zak <zrjknill@gmail.com>  
Zakatell Kanda <hi@zkanda.io>  
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>  
Zev Goldstein <zev.goldstein@gmail.com>  
Zhang Boyang <zhangboyang.id@gmail.com>  
Zheng Dayu <davidzheng23@gmail.com>  
Zheng Xu <zheng.xu@arm.com>  
Zhengyu He <hzy@google.com>  
Zhi Zheng <zhi.zheng052@gmail.com>  
Zhongpeng Lin <zplin@uber.com>  
Zhongtao Chen <chenzhongtao@126.com>  
Zhongwei Yao <zhongwei.yao@arm.com>  
Zhou Guangyuan <zhouguangyuan.xian@gmail.com>  
Zhou Peng <p@ctruple.cn>  
Ziad Hatahet <hatahet@gmail.com>  
Ziheng Liu <lzhfromustc@gmail.com>  
Zizhao Zhang <btw515wolf2@gmail.com>  
Zorion Arrizabalaga <zorionk@gmail.com>  
Zvonimir Pavlinovic <zpavlinovic@google.com>  
Zyad A. Ali <zyad.ali.me@gmail.com>  
<a.maksadbek@gmail.com>  
<max.faceless.frei@gmail.com>  
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## 1.572 x-crypto 0.0.0-20220926161630- eccd6366d1be

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## 1.573 x-net 0.0.0-20220906165146- f3363e06e74c

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cs.revision=069779ccd92cf15d69e7fdde1c6ad  
db28ee6f0a6

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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>

Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)

Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)

Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)

Michael Schroeder <mlschroe@immd4.informatik.uni-erlangen.de> (examples/rlfe)

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```

```
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```
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## 1.588 go-uber-org-multierr 1.6.0

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## 1.589 go.uber.org/atomi 1.7.0

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# 1.593 cryptography 37.0.4

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# 1.596 google-uuid 1.3.0

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Paul Borman <borman@google.com>

bmatsuo

shawnps

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