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Upstream-Name: libassuan  
Upstream-Contact: Werner Koch <wk@gnupg.org>  
Source: <https://gnupg.org/ftp/gcrypt/libassuan/>

Files: \*

Makefile.am  
src/Makefile.am  
src/assuan-buffer.c  
src/assuan-error.c  
src/assuan-inquire.c  
src/assuan-io.c  
src/assuan-listen.c  
src/assuan-pipe-server.c  
src/assuan-socket-connect.c  
src/assuan-socket-server.c  
src/assuan-socket.c  
src/assuan-uds.c  
src/client.c  
src/context.c  
src/funopen.c  
src/memrchr.c  
src/posix-fd-t.inc.h  
src/posix-includes.inc.h  
src/posix-sock-nonce.inc.h  
src/posix-sys-pth-impl.h  
src/posix-types.inc.h  
src/putc\_unlocked.c  
src/server.c  
src/setenv.c  
src/stpcpy.c  
src/system-posix.c  
src/system-w32.c  
src/system-w32ce.c  
src/system.c  
src/w32-fd-t.inc.h  
src/w32-includes.inc.h  
src/w32-sock-nonce.inc.h  
src/w32-sys-pth-impl.h  
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aclocal.m4  
build-aux/git-log-footer  
configure  
INSTALL  
m4/gnupg-pth.m4  
m4/ltoptions.m4  
m4/ltsugar.m4  
m4/ltversion.m4

m4/lt~obsolete.m4  
m4/onceonly.m4  
m4/socklen.m4  
m4/sys\_socket\_h.m4  
m4/Makefile.in  
src/libassuan-config.in  
src/libassuan.m4  
src/mkheader.c

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Files: doc/Makefile.am

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src/gpgcedev.c  
src/gpgcedev.def  
src/gpgcemgr.c  
tests/Makefile.am  
tests/Makefile.in  
tests/ce-creatpipe.c  
tests/ce-server.c  
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src/libassuan.def  
src/libassuan.vers

tests/version.c

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Files: build-aux/compile

build-aux/ltmain.sh

m4/libtool.m4

build-aux/missing

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build-aux/config.sub

doc/assuan.info

doc/assuan.texi

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## 1.2 libunistring 0.9.9 Ubuntu2

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```

## 1.3 gorilla 1.7.4

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```

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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

-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4 components:

```
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```

-----  
For the compiler/cpp/src/md5.[ch] components:

/\*

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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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<https://github.com/golang/protobuf>

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Dave Cheney <dave@cheney.net>

Saulius Gurklys <s4uliu5@gmail.com>

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#

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#

# Please keep the list sorted.

#

# Use the following command to generate the list

#

# git shortlog -se | awk '{print \$2 " " \$3 " " \$4}'

#

# and do appropriate cleanups.

DanB <danb@cgrates.org>

David Wilkie <dwilkie@gmail.com>

Seyi Ogunyemi <micrypt@users.noreply.github.com>

Tapio <fitase@emblacom.com>

jaroszan <jaroslaw.szangin@gmail.com>

mspronk <martijn@orangemountain.ca>

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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

### Introduction

-----

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.

### Background

-----

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

### Changed from MiniZip 1.0 to MiniZip 1.1

-----

- \* Added ZIP64 support for unzip ( by Even Rouault )
- \* Added ZIP64 support for zip ( by Mathias Svensson )
- \* Reverted some changed that Even Rouault did.
- \* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
- \* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
- \* Added BZIP Compress method for zip
- \* Did some refactoring and code cleanup

### Credits

Gilles Vollant - Original MiniZip author

Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>  
Zip File specification

## Notes.

\* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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-----

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/MiniZip64\_info.txt

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

/\* gzread.c -- zlib functions for reading gzip files

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzread.c  
No license file was found, but licenses were detected in source scan.

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/crc32.c  
No license file was found, but licenses were detected in source scan.

```
/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications for Zip64 support  
Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip\_info.txt

-----  
Condition of use and distribution are the same than zlib :

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-----

## Changes

See header of zip.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/zip.h

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

/\* trees.c -- output deflated data using Huffman coding

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* detect\_data\_type() function provided freely by Cosmin Truta, 2006

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/trees.c

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

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/deflate.h

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

/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzappend.c

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

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/compress.c

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

## Frequently Asked Questions about ZLIB1.DLL

This document describes the design, the rationale, and the usage of the official DLL build of zlib, named ZLIB1.DLL. If you have general questions about zlib, you should see the file "FAQ" found in the zlib distribution, or at the following location:

[http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html)

1. What is ZLIB1.DLL, and how can I get it?

- ZLIB1.DLL is the official build of zlib as a DLL.  
(Please remark the character '1' in the name.)

Pointers to a precompiled ZLIB1.DLL can be found in the zlib web site at:

<http://www.zlib.net/>

Applications that link to ZLIB1.DLL can rely on the following

specification:

- \* The exported symbols are exclusively defined in the source files "zlib.h" and "zlib.def", found in an official zlib source distribution.
- \* The symbols are exported by name, not by ordinal.
- \* The exported names are undecorated.
- \* The calling convention of functions is "C" (CDECL).
- \* The ZLIB1.DLL binary is linked to MSVCRT.DLL.

The archive in which ZLIB1.DLL is bundled contains compiled test programs that must run with a valid build of ZLIB1.DLL. It is recommended to download the prebuilt DLL from the zlib web site, instead of building it yourself, to avoid potential incompatibilities that could be introduced by your compiler and build settings. If you do build the DLL yourself, please make sure that it complies with all the above requirements, and it runs with the precompiled test programs, bundled with the original ZLIB1.DLL distribution.

If, for any reason, you need to build an incompatible DLL, please use a different file name.

## 2. Why did you change the name of the DLL to ZLIB1.DLL? What happened to the old ZLIB.DLL?

- The old ZLIB.DLL, built from zlib-1.1.4 or earlier, required compilation settings that were incompatible to those used by a static build. The DLL settings were supposed to be enabled by defining the macro ZLIB\_DLL, before including "zlib.h". Incorrect handling of this macro was silently accepted at build time, resulting in two major problems:

- \* ZLIB\_DLL was missing from the old makefile. When building the DLL, not all people added it to the build options. In consequence, incompatible incarnations of ZLIB.DLL started to circulate around the net.
- \* When switching from using the static library to using the DLL, applications had to define the ZLIB\_DLL macro and to recompile all the sources that contained calls to zlib functions. Failure to do so resulted in creating binaries that were unable to run with the official ZLIB.DLL build.

The only possible solution that we could foresee was to make a binary-incompatible change in the DLL interface, in order to remove the dependency on the ZLIB\_DLL macro, and to release

the new DLL under a different name.

We chose the name ZLIB1.DLL, where '1' indicates the major zlib version number. We hope that we will not have to break the binary compatibility again, at least not as long as the zlib-1.x series will last.

There is still a ZLIB\_DLL macro, that can trigger a more efficient build and use of the DLL, but compatibility no longer depends on it.

3. Can I build ZLIB.DLL from the new zlib sources, and replace an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- In principle, you can do it by assigning calling convention keywords to the macros ZEXPORT and ZEXPORTVA. In practice, it depends on what you mean by "an old ZLIB.DLL", because the old DLL exists in several mutually-incompatible versions. You have to find out first what kind of calling convention is being used in your particular ZLIB.DLL build, and to use the same one in the new build. If you don't know what this is all about, you might be better off if you would just leave the old DLL intact.

4. Can I compile my application using the new zlib interface, and link it to an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- The official answer is "no"; the real answer depends again on what kind of ZLIB.DLL you have. Even if you are lucky, this course of action is unreliable.

If you rebuild your application and you intend to use a newer version of zlib (post- 1.1.4), it is strongly recommended to link it to the new ZLIB1.DLL.

5. Why are the zlib symbols exported by name, and not by ordinal?

- Although exporting symbols by ordinal is a little faster, it is risky. Any single glitch in the maintenance or use of the DEF file that contains the ordinals can result in incompatible builds and frustrating crashes. Simply put, the benefits of exporting symbols by ordinal do not justify the risks.

Technically, it should be possible to maintain ordinals in

the DEF file, and still export the symbols by name. Ordinals exist in every DLL, and even if the dynamic linking performed at the DLL startup is searching for names, ordinals serve as hints, for a faster name lookup. However, if the DEF file contains ordinals, the Microsoft linker automatically builds an implib that will cause the executables linked to it to use those ordinals, and not the names. It is interesting to notice that the GNU linker for Win32 does not suffer from this problem.

It is possible to avoid the DEF file if the exported symbols are accompanied by a "`__declspec(dllexport)`" attribute in the source files. You can do this in zlib by predefining the `ZLIB_DLL` macro.

6. I see that the ZLIB1.DLL functions use the "C" (CDECL) calling convention. Why not use the STDCALL convention? STDCALL is the standard convention in Win32, and I need it in my Visual Basic project!

(For readability, we use CDECL to refer to the convention triggered by the "`__cdecl`" keyword, STDCALL to refer to the convention triggered by "`__stdcall`", and FASTCALL to refer to the convention triggered by "`__fastcall`".)

- Most of the native Windows API functions (without varargs) use indeed the WINAPI convention (which translates to STDCALL in Win32), but the standard C functions use CDECL. If a user application is intrinsically tied to the Windows API (e.g. it calls native Windows API functions such as `CreateFile()`), sometimes it makes sense to decorate its own functions with WINAPI. But if ANSI C or POSIX portability is a goal (e.g. it calls standard C functions such as `fopen()`), it is not a sound decision to request the inclusion of `<windows.h>`, or to use non-ANSI constructs, for the sole purpose to make the user functions STDCALL-able.

The functionality offered by zlib is not in the category of "Windows functionality", but is more like "C functionality".

Technically, STDCALL is not bad; in fact, it is slightly faster than CDECL, and it works with variable-argument functions, just like CDECL. It is unfortunate that, in spite of using STDCALL in the Windows API, it is not the default convention used by the C compilers that run under Windows. The roots of the problem reside deep inside the unsafety of the K&R-style function prototypes, where the argument types

are not specified; but that is another story for another day.

The remaining fact is that CDECL is the default convention. Even if an explicit convention is hard-coded into the function prototypes inside C headers, problems may appear. The necessity to expose the convention in users' callbacks is one of these problems.

The calling convention issues are also important when using zlib in other programming languages. Some of them, like Ada (GNAT) and Fortran (GNU G77), have C bindings implemented initially on Unix, and relying on the C calling convention. On the other hand, the pre-.NET versions of Microsoft Visual Basic require STDCALL, while Borland Delphi prefers, although it does not require, FASTCALL.

In fairness to all possible uses of zlib outside the C programming language, we choose the default "C" convention. Anyone interested in different bindings or conventions is encouraged to maintain specialized projects. The "contrib/" directory from the zlib distribution already holds a couple of foreign bindings, such as Ada, C++, and Delphi.

#### 7. I need a DLL for my Visual Basic project. What can I do?

- Define the ZLIB\_WINAPI macro before including "zlib.h", when building both the DLL and the user application (except that you don't need to define anything when using the DLL in Visual Basic). The ZLIB\_WINAPI macro will switch on the WINAPI (STDCALL) convention. The name of this DLL must be different than the official ZLIB1.DLL.

Gilles Vollant has contributed a build named ZLIBWAPI.DLL, with the ZLIB\_WINAPI macro turned on, and with the minizip functionality built in. For more information, please read the notes inside "contrib/vstudio/readme.txt", found in the zlib distribution.

#### 8. I need to use zlib in my Microsoft .NET project. What can I do?

- Henrik Ravn has contributed a .NET wrapper around zlib. Look into contrib/dotzlib/, inside the zlib distribution.

#### 9. If my application uses ZLIB1.DLL, should I link it to

MSVCRT.DLL? Why?

- It is not required, but it is recommended to link your application to MSVCRT.DLL, if it uses ZLIB1.DLL.

The executables (.EXE, .DLL, etc.) that are involved in the same process and are using the C run-time library (i.e. they are calling standard C functions), must link to the same library. There are several libraries in the Win32 system: CRTDLL.DLL, MSVCRT.DLL, the static C libraries, etc. Since ZLIB1.DLL is linked to MSVCRT.DLL, the executables that depend on it should also be linked to MSVCRT.DLL.

10. Why are you saying that ZLIB1.DLL and my application should be linked to the same C run-time (CRT) library? I linked my application and my DLLs to different C libraries (e.g. my application to a static library, and my DLLs to MSVCRT.DLL), and everything works fine.

- If a user library invokes only pure Win32 API (accessible via <windows.h> and the related headers), its DLL build will work in any context. But if this library invokes standard C API, things get more complicated.

There is a single Win32 library in a Win32 system. Every function in this library resides in a single DLL module, that is safe to call from anywhere. On the other hand, there are multiple versions of the C library, and each of them has its own separate internal state. Standalone executables and user DLLs that call standard C functions must link to a C run-time (CRT) library, be it static or shared (DLL). Intermixing occurs when an executable (not necessarily standalone) and a DLL are linked to different CRTs, and both are running in the same process.

Intermixing multiple CRTs is possible, as long as their internal states are kept intact. The Microsoft Knowledge Base articles KB94248 "HOWTO: Use the C Run-Time" and KB140584 "HOWTO: Link with the Correct C Run-Time (CRT) Library" mention the potential problems raised by intermixing.

If intermixing works for you, it's because your application and DLLs are avoiding the corruption of each of the CRTs' internal states, maybe by careful design, or maybe by fortune.

Also note that linking ZLIB1.DLL to non-Microsoft CRTs, such as those provided by Borland, raises similar problems.

11. Why are you linking ZLIB1.DLL to MSVCRT.DLL?

- MSVCRT.DLL exists on every Windows 95 with a new service pack installed, or with Microsoft Internet Explorer 4 or later, and on all other Windows 4.x or later (Windows 98, Windows NT 4, or later). It is freely distributable; if not present in the system, it can be downloaded from Microsoft or from other software provider for free.

The fact that MSVCRT.DLL does not exist on a virgin Windows 95 is not so problematic. Windows 95 is scarcely found nowadays, Microsoft ended its support a long time ago, and many recent applications from various vendors, including Microsoft, do not even run on it. Furthermore, no serious user should run Windows 95 without a proper update installed.

12. Why are you not linking ZLIB1.DLL to <<my favorite C run-time library>> ?

- We considered and abandoned the following alternatives:
  - \* Linking ZLIB1.DLL to a static C library (LIBC.LIB, or LIBCMT.LIB) is not a good option. People are using the DLL mainly to save disk space. If you are linking your program to a static C library, you may as well consider linking zlib in statically, too.
  - \* Linking ZLIB1.DLL to CRTDLL.DLL looks appealing, because CRTDLL.DLL is present on every Win32 installation. Unfortunately, it has a series of problems: it does not work properly with Microsoft's C++ libraries, it does not provide support for 64-bit file offsets, (and so on...), and Microsoft discontinued its support a long time ago.
  - \* Linking ZLIB1.DLL to MSVCR70.DLL or MSVCR71.DLL, supplied with the Microsoft .NET platform, and Visual C++ 7.0/7.1, raises problems related to the status of ZLIB1.DLL as a system component. According to the Microsoft Knowledge Base article KB326922 "INFO: Redistribution of the Shared C Runtime Component in Visual C++ .NET", MSVCR70.DLL and MSVCR71.DLL are not supposed to function as system DLLs, because they may clash with MSVCRT.DLL. Instead, the application's installer is supposed to put these DLLs (if needed) in the application's private directory. If ZLIB1.DLL depends on a non-system runtime, it cannot

function as a redistributable system component.

\* Linking ZLIB1.DLL to non-Microsoft runtimes, such as Borland's, or Cygwin's, raises problems related to the reliable presence of these runtimes on Win32 systems. It's easier to let the DLL build of zlib up to the people who distribute these runtimes, and who may proceed as explained in the answer to Question 14.

13. If ZLIB1.DLL cannot be linked to MSVCR70.DLL or MSVCR71.DLL, how can I build/use ZLIB1.DLL in Microsoft Visual C++ 7.0 (Visual Studio .NET) or newer?

- Due to the problems explained in the Microsoft Knowledge Base article KB326922 (see the previous answer), the C runtime that comes with the VC7 environment is no longer considered a system component. That is, it should not be assumed that this runtime exists, or may be installed in a system directory. Since ZLIB1.DLL is supposed to be a system component, it may not depend on a non-system component.

In order to link ZLIB1.DLL and your application to MSVCRT.DLL in VC7, you need the library of Visual C++ 6.0 or older. If you don't have this library at hand, it's probably best not to use ZLIB1.DLL.

We are hoping that, in the future, Microsoft will provide a way to build applications linked to a proper system runtime, from the Visual C++ environment. Until then, you have a couple of alternatives, such as linking zlib in statically. If your application requires dynamic linking, you may proceed as explained in the answer to Question 14.

14. I need to link my own DLL build to a CRT different than MSVCRT.DLL. What can I do?

- Feel free to rebuild the DLL from the zlib sources, and link it the way you want. You should, however, clearly state that your build is unofficial. You should give it a different file name, and/or install it in a private directory that can be accessed by your application only, and is not visible to the others (i.e. it's neither in the PATH, nor in the SYSTEM or SYSTEM32 directories). Otherwise, your build may clash with applications that link to the official build.

For example, in Cygwin, zlib is linked to the Cygwin runtime



CYGWIN1.DLL, and it is distributed under the name CYGZ.DLL.

15. May I include additional pieces of code that I find useful, link them in ZLIB1.DLL, and export them?

- No. A legitimate build of ZLIB1.DLL must not include code that does not originate from the official zlib source code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

For example, zlib is a part of the VCL library, distributed with Borland Delphi and C++ Builder. The DLL build of VCL is a redistributable file, named VCLxx.DLL.

16. May I remove some functionality out of ZLIB1.DLL, by enabling macros like NO\_GZCOMPRESS or NO\_GZIP at compile time?

- No. A legitimate build of ZLIB1.DLL must provide the complete zlib functionality, as implemented in the official zlib source code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

17. I made my own ZLIB1.DLL build. Can I test it for compliance?

- We prefer that you download the official DLL from the zlib web site. If you need something peculiar from this DLL, you can send your suggestion to the zlib mailing list.

However, in case you do rebuild the DLL yourself, you can run it with the test programs found in the DLL distribution. Running these test programs is not a guarantee of compliance, but a failure can imply a detected problem.

\*\*

This document is written and maintained by  
Cosmin Truta <cosmint@cs.ubbcluj.ro>

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/DLL\_FAQ.txt

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

/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zutil.c

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

/\* infcover.c -- test zlib's inflate routines with full code coverage

\* Copyright (C) 2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/infcover.c

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\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zlib.3

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

/\* Adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/adler32.c

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

/\* gun.c -- simple gunzip to give an example of the use of inflateBack()

\* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.7 12 August 2012 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gun.c

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

/\* inffast.h -- header to use inffast.c

\* Copyright (C) 1995-2003, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inffast.h

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

/\* inftrees.h -- header to use inftrees.c

\* Copyright (C) 1995-2005, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inftrees.h

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

/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inftrees.c

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

/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.

Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying file LICENSE, version 2000-Apr-09 or later (the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/unzip.c

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

/\* zutil.h -- internal interface and configuration of the compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zutil.h

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

/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/mztools.h

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/mztools.c

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

/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zran.c

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

# For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/msdos/Makefile.dj2

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/msdos/Makefile.emx

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/Makefile.gcc

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/old/Makefile.emx

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/old/os2/Makefile.os2

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

/\* gzlib.c -- zlib functions common to reading and writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzlib.c

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

```
/* gzclose.c -- zlib gzclose() function
```

```
* Copyright (C) 2004, 2010 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzclose.c

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

```
/* deflate.c -- compress data using the deflation algorithm
```

```
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/deflate.c

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

```
/* example.c -- usage example of the zlib compression library
```

```
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/example.c

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

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
```

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

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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

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

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zlib.h  
No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zlib\_how.html  
No license file was found, but licenses were detected in source scan.

/\* infback.c -- inflate using a call-back interface

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/infback.c  
No license file was found, but licenses were detected in source scan.

/\* gzjoin -- command to join gzip files into one gzip file

Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved  
version 1.2, 14 Aug 2012

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3. This notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzjoin.c

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

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* win32/DLL\_FAQ.txt in the zlib distribution

4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z\_BUF\_ERROR.



Before making the call, make sure that `avail_in` and `avail_out` are not zero. When setting the parameter `flush` equal to `Z_FINISH`, also make sure that `avail_out` is big enough to allow processing all pending input. Note that a `Z_BUF_ERROR` is not fatal--another call to `deflate()` or `inflate()` can be made with more input or output space. A `Z_BUF_ERROR` may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when `strm.avail_out` returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h`. Examples of zlib usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/`.

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at `zlib@gzip.org`. Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to `gzputc`"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the `contrib/delphi` directory in the zlib distribution.

11. Can zlib handle `.zip` archives?

Not by itself, no. See the directory `contrib/minizip` in the zlib distribution.

12. Can zlib handle `.Z` files?

No, sorry. You have to spawn an `uncompress` or `gunzip` subprocess, or adapt

the code of uncompress on your own.

### 13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

### 14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

### 15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

### 16. Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

### 17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (`cc` or `gcc`). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

### 18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The gz\* functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz\* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's \*Init\* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB\_VERSION and ZLIB\_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB\_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering

is "1.2.3.4", then in zlib.h you should change ZLIB\_VERSION to 0x123f, and ZLIB\_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and infrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB\_VERSION and ZLIB\_VERSION and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25. Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z\_FULL\_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z\_FULL\_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total\_in and strm\_total\_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License. Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/FAQ

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

/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h.cmakein

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h.in

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h

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

/\* minigzip.c -- simulate gzip using the zlib compression library

\* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/minigzip.c

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

/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/uncompr.c

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

/\* inflate.h -- internal inflate state definition

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inflate.h

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

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64



Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
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-----  
Changes

See header of unzip64.c

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/unzip.h

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

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zpipe.c

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

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see

<http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <[info@winimage.com](mailto:info@winimage.com)>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

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If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/README
No license file was found, but licenses were detected in source scan.
```

```
/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzwrite.c
No license file was found, but licenses were detected in source scan.
```

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). Two compiled examples are distributed in this package, `example` and `minigzip`. The `example_d` and `minigzip_d` flavors validate that the `zlib1.dll` file is working correctly.

Questions about zlib should be sent to <zlib@gzip.org>. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read DLL\_FAQ.txt, and the the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Manifest:

The package zlib-1.2.11-win32-x86.zip will contain the following files:

README-WIN32.txt This document  
ChangeLog Changes since previous zlib packages  
DLL\_FAQ.txt Frequently asked questions about zlib1.dll  
zlib.3.pdf Documentation of this library in Adobe Acrobat format

example.exe A statically-bound example (using zlib.lib, not the dll)  
example.pdb Symbolic information for debugging example.exe

example\_d.exe A zlib1.dll bound example (using zdll.lib)  
example\_d.pdb Symbolic information for debugging example\_d.exe

minigzip.exe A statically-bound test program (using zlib.lib, not the dll)  
minigzip.pdb Symbolic information for debugging minigzip.exe

minigzip\_d.exe A zlib1.dll bound test program (using zdll.lib)  
minigzip\_d.pdb Symbolic information for debugging minigzip\_d.exe

zlib.h Install these files into the compilers' INCLUDE path to  
zconf.h compile programs which use zlib.lib or zdll.lib

zdll.lib Install these files into the compilers' LIB path if linking  
zdll.exp a compiled program to the zlib1.dll binary

zlib.lib Install these files into the compilers' LIB path to link zlib  
zlib.pdb into compiled programs, without zlib1.dll runtime dependency  
(zlib.pdb provides debugging info to the compile time linker)

zlib1.dll Install this binary shared library into the system PATH, or  
the program's runtime directory (where the .exe resides)  
zlib1.pdb Install in the same directory as zlib1.dll, in order to debug  
an application crash using WinDbg or similar tools.

All .pdb files above are entirely optional, but are very useful to a developer attempting to diagnose program misbehavior or a crash. Many additional important files for developers can be found in the zlib127.zip source package

available from <http://zlib.net/> - review that package's README file for details.

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/README-WIN32.txt

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

```
/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inflate.c
No license file was found, but licenses were detected in source scan.
```

```
/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inffast.c
No license file was found, but licenses were detected in source scan.
```

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzguts.h
No license file was found, but licenses were detected in source scan.
```

```
/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012
```

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Mark Adler madler@alumni.caltech.edu

\*/

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\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzlog.h

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/\* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/fitblk.c

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

/\*

\* gzlog.c

\* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved

\* For conditions of distribution and use, see copyright notice in gzlog.h

\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /opt/cola/permits/1394173797\_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzlog.c

# 1.7 ncurses 6.1 1ubuntu1.18.04

## 1.7.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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shared with many OS's install programs.

On Debian systems, the complete text of the GNU General  
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-- vile:txtmode file-encoding=utf-8

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This package was put together by Vaidhyanathan G Mayilrangam  
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Current versions of the ncurses sources are found at

<ftp://invisible-island.net/ncurses/>.

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-----  
Files: install-sh

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

## 1.8 kubernetes-model-common 4.6.3

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```
* /opt/cola/permits/1263516959_1643662554.07/0/kubernetes-model-common-4-6-3-sources-
jar/io/fabric8/kubernetes/model/annotation/ApiGroup.java
* /opt/cola/permits/1263516959_1643662554.07/0/kubernetes-model-common-4-6-3-sources-
jar/io/fabric8/kubernetes/model/annotation/ApiVersion.java
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\* /opt/cola/permits/1263516959\_1643662554.07/0/kubernetes-model-common-4-6-3-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-common/pom.xml

## 1.9 gopacket 1.1.19

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## 1.10 grpc-ecosystem-go-grpc-middleware

### 1.2.2

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## 1.11 xz 5.2.2 1.3ubuntu0.1

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=====

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Upstream-Contact:

Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

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Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

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changelog.gz (commit 975d8fd) explains:

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2007-2010, Lasse Collin

Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,  
David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,  
visibility.m4 serial 1 (gettext-0.15),  
Autoconf 2.52g

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dos/config.h was generated with autoheader, which tells Autoconf to  
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Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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Authors: Bruno Haible

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```

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## 1.14 ucf 3.0038

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Upstream-Contact: Manoj Srivastava <srivasta@debian.org>

Source: <https://anonscm.debian.org/users/srivasta/debian/ucf.git>

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## 1.15 libssh 0.9.3 2ubuntu2.2

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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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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/libcrypt.c  
src/log.c  
src/messages.c  
src/packet.c  
src/packet1.c  
src/packet\_cb.c  
src/packet\_crypt.c  
src/pcap.c  
src/pki\_container\_openssh.c  
src/pki\_ed25519.c  
src/server.c  
src/session.c  
src/sftpserver.c  
src/socket.c  
src/string.c  
src/threads.c  
src/threads/pthread.c  
src/wrapper.c  
tests/benchmarks/bench\_raw.c  
tests/benchmarks/bench\_scp.c  
tests/benchmarks/bench\_sftp.c  
tests/benchmarks/benchmarks.c  
tests/benchmarks/benchmarks.h  
tests/benchmarks/latency.c  
tests/client/torture\_algorithms.c  
tests/client/torture\_auth.c  
tests/client/torture\_connect.c  
tests/client/torture\_knownhosts.c  
tests/client/torture\_session.c  
tests/test\_pcap.c  
tests/test\_socket.c

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Files: examples/exec.c  
examples/senddata.c  
examples/CMakeLists.txt  
include/libssh/ssh1.h  
include/libssh/ssh2.h  
tests/authentication.c  
tests/benchmarks/bench1.sh  
tests/benchmarks/bench2.sh  
tests/chmodtest.c  
tests/client/torture\_proxycommand.c  
tests/client/torture\_sftp\_dir.c  
tests/client/torture\_sftp\_read.c

tests/cmdline.c  
tests/connection.c  
tests/generate.py  
tests/sftp\_stress/main.c  
tests/test\_exec.c  
tests/test\_ssh\_bind\_accept\_fd.c  
tests/test\_tunnel.c  
tests/tests.h  
tests/unittests/torture\_buffer.c  
tests/unittests/torture\_callbacks.c  
tests/unittests/torture\_channel.c  
tests/unittests/torture\_init.c  
tests/unittests/torture\_isipaddr.c  
tests/unittests/torture\_keyfiles.c  
tests/unittests/torture\_list.c  
tests/unittests/torture\_misc.c  
tests/unittests/torture\_options.c  
tests/unittests/torture\_pki.c  
tests/unittests/torture\_rand.c

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Files: examples/authentication.c  
examples/connect\_ssh.c  
examples/examples\_common.h  
examples/knownhosts.c  
examples/libssh\_scp.c  
examples/libsshpp.cpp  
examples/libsshpp\_noexcept.cpp  
examples/proxy.c  
examples/sample.c  
examples/samplesftp.c  
examples/samplesshd-cb.c  
examples/samplesshd-kbdint.c  
examples/scp\_download.c  
examples/sshnetcat.c

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Files: src/external/curve25519\_ref.c  
src/external/ed25519.c  
src/external/fe25519.c

src/external/ge25519.c  
src/external/ge25519\_base.data  
src/external/sc25519.c

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Files: tests/pkd/pkd\_client.h  
tests/pkd/pkd\_daemon.c  
tests/pkd/pkd\_daemon.h  
tests/pkd/pkd\_hello.c  
tests/pkd/pkd\_keyutil.c  
tests/pkd/pkd\_keyutil.h  
tests/pkd/pkd\_util.c  
tests/pkd/pkd\_util.h

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Files: src/channels.c  
src/channels1.c  
src/gzip.c  
src/known\_hosts.c  
src/misc.c  
src/options.c  
src/pki.c  
src/pki\_crypto.c  
src/pki\_gcrypt.c  
src/sftp.c

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Files: include/libssh/agent.h  
include/libssh/options.h  
src/agent.c  
src/callbacks.c  
src/config.c  
tests/client/torture\_forward.c  
tests/client/torture\_request\_env.c  
tests/torture.c  
tests/torture.c  
tests/torture.h

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Files: include/libssh/curve25519.h  
src/curve25519.c

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Files: include/libssh/callbacks.h

src/scp.c

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Files: src/match.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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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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## 1.16 python-setuptools 39.0.1-2

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## 1.19 patch 2.7.6-2ubuntu1

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```
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# 1.20 pam 1.1.8 3.6ubuntu2.18.04.1

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```

+     }
+
+     if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+         goto finished;
+     if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+         goto finished;
+
+     if (stat(flag, &s) != 0)
+     {
+         display_file(pamh, "/etc/legal");
+         mkdir(dir, 0700);
+         f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                 S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+         if (f>=0) close(f);
+     }
+
+finished:
+     if (pam_modutil_regain_priv(pamh, &privs)) {
+         pam_syslog(pamh, LOG_ERR,
+                 "Unable to change UID back to %d\n", privs.old_uid);
+         retval = PAM_SESSION_ERR;
+     }
+
+     _pam_drop(flag);
+     _pam_drop(dir);
+ }
+ }
+ return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+     retval = display_legal(pamh);
+
    return retval;
}
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on
Wed, 23 Sep 1998 20:29:32 +0200.

```

It was downloaded from <ftp://ftp.kernel.org/pub/linux/libs/pam/pre/>

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## 1.21 kerberos 1.16-2ubuntu0.2

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c

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

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

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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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
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lib/libgss/g_delete_sec_context.c
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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
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lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
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lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
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Protocol Buffers for Go with Gadgets

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

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<https://github.com/golang/protobuf>

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#

# and do appropriate cleanups.

DanB <danb@cgrates.org>

David Wilkie <dwilkie@gmail.com>

Seyi Ogunyemi <micrypt@users.noreply.github.com>

Tapio <fitase@emblacom.com>

jaroszan <jaroslaw.szangin@gmail.com>

mspronk <martijn@orangemountain.ca>

## 1.24 rung-go-safecast 1.0.1

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## 1.26 hostname 3.20

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hostname -- set the host name or show the host/domain name

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## 1.27 vim 8.0.1453-1ubuntu1.8

## 1.28 init-system-helpers 1.57

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```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
```



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```
<script type="text/javascript"><!--><![CDATA[</><!-->
```

```
var comments_shortname = 'httpd';
```

```
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
```

```
(function(w, d) {
```

```

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
}
else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
}
})(window, document);
--><![></script></div><div id="footer">
<p class="apache">Copyright 2017 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[<!-->
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
}
--><![></script>
</body></html>

```

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 */
```

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```
/*
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* Software Development Group
* National Center for Supercomputing Applications
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

\*/

## 1.30 easyjson 0.7.7

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## 1.32 base-passwd 3.5.47

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## 1.37 golang 1.12.5

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Aamir Khan <syst3m.w0rm@gmail.com>  
Aaron Cannon <cannon@fireantproductions.com>  
Aaron France <aaron.l.france@gmail.com>  
Aaron Jacobs <jacobsa@google.com>

Aaron Kemp <kemp.aaron@gmail.com>  
Aaron Stein <aaronstein12@gmail.com>  
Aaron Torres <tcboox@gmail.com>  
Aaron Zinman <aaron@azinman.com>  
Aarti Parikh <aarti.parikh@gmail.com>  
Abdullah Al Maruf <mymail.maruf@gmail.com>  
Abe Haskins <abeisgreat@abeisgreat.com>  
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 Shannon <adamkshannon@gmail.com>  
Adam Sindelar <adamsh@google.com>  
Adam Thomason <athomason@gmail.com>  
Adam Woodbeck <adam@woodbeck.net>  
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>  
Aiden Scandella <ai@uber.com>  
Ainar Garipov <gugl.zadolbal@gmail.com>  
Aishraj Dahal <aishraj@users.noreply.github.com>  
Akhil Indurti <contact@akhilindurti.com>  
Akihiro Suda <suda.kyoto@gmail.com>  
Akshat Kumar <seed@mail.nanosouffle.net>  
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 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>  
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 Carol <alex.carol.c@gmail.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 Vaghin <crhyme@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 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 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>  
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>  
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>  
Anand K. Mistry <anand@mistry.ninja>  
Anders Pearson <anders@columbia.edu>  
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 Gherzan <andrei@resin.io>  
Andrei Korzhevskii <a.korzhevskiy@gmail.com>  
Andrei Tudor Clin <mail@acln.ro>  
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 Gerrand <adg@golang.org>  
Andrew Harding <andrew@spacemonkey.com>  
Andrew Jackura <ajackura@google.com>  
Andrew Lutomirski <andy@luto.us>  
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 Stribblehill <ads@wompom.org>  
Andrew Szeto <andrew@jabagawee.com>  
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>  
Andrew Wilkins <axwalk@gmail.com>  
Andrew Williams <williams.andrew@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 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 <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>  
Antonin Amand <antonin.amand@gmail.com>  
Antonio Antelo <aantelov87@gmail.com>  
Antonio Bibiano <antbbn@gmail.com>  
Antonio Murdaca <runcom@redhat.com>  
Antonio Troina <thoeni@gmail.com>  
Apisak Darakananda <pongad@gmail.com>  
Aram Hvrneanu <aram@mgk.ro>  
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>  
Arthur Fabre <arthur@arthurfabre.com>  
Arthur Khashaev <arthur@khashaev.ru>  
Artyom Pervukhin <artyom.pervukhin@gmail.com>  
Arvinth Rajesh Tamilmani <art@a-30.net>  
Ashish Gandhi <ag@ashishgandhi.org>  
Asim Shankar <asimshankar@gmail.com>  
Atin Malaviya <amalaviy@akamai.com>  
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Ayanamist Yang <ayanamist@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>  
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>  
Benjamin Black <b@b3k.us>  
Benjamin Cable <cable.benjamin@gmail.com>  
Benjamin Hsieh <tanookiben@users.noreply.github.com>  
Benjamin Prosnitz <bprosnitz@google.com>  
Benjamin Wester <bwester@squareup.com>

Benny Siegert <bsiegert@gmail.com>  
Benoit Sigoure <tsunanet@gmail.com>  
Berengar Lehr <Berengar.Lehr@gmx.de>  
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>  
Bjorn Tillenius <bjorn@tilenius.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 <rbjones@google.com>  
Brad Morgan <brad@morgabra.com>  
Brad Whitaker <bwhitaker@fastly.com>  
Braden Bassingthwaite <bbassingthwaite@vendasta.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>  
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 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>  
Bryan Alexander <Kozical@msn.com>  
Bryan C. Mills <bcmills@google.com>  
Bryan Chan <bryan.chan@ca.ibm.com>  
Bryan Ford <brynosaurus@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 Castillo <cookieo9@gmail.com>  
Carlos Cirello <uldericofilho@gmail.com>  
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>  
Carlos Souza <carloshrsouza@gmail.com>  
Carolyn Van Slyck <me@carolynvanslyck.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>  
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>  
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 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 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 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>  
Cody Oss <the.cody.oss@gmail.com>  
Colby Ranger <cranger@google.com>  
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 <cyrill@schumacher.fm>  
Daisuke Fujita <dtanshi45@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 Sinclair <dan.sinclair@gmail.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 Lidn <daniel.liden.87@gmail.com>  
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.petruszalek@gmail.com>  
Danny Rosseau <daniel.rosseau@gmail.com>  
Daria Kolistratova <daria.kolistratova@intel.com>  
Darien Raymond <admin@v2ray.com>  
Darren Elwood <darren@textnode.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 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 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 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 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 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 Neverov <dmitry.neverov@gmail.com>  
Dmitry Savintsev <dsavints@gmail.com>  
Dmitry Yakunin <nonamezeil@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>  
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>  
Eden Li <eden.li@gmail.com>  
Eduard Urbach <e.urbach@gmail.com>  
Eduardo Ramalho <eduardo.ramalho@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>  
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 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 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 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@youreemail.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>  
Felipe Oliveira <felipeweb.programador@gmail.com>  
Felix Geisendrfer <haimuiba@gmail.com>  
Felix Kollmann <fk@konsorten.de>  
Filip Gruszczyski <gruszczy@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>  
Francisco Claude <fclaude@recoded.cl>  
Francisco Rojas <francisco.rojas.gallegos@gmail.com>  
Francisco Souza <franciscossouza@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>  
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>  
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 Nicolas Avellaneda <avellaneda.gabriel@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@aurishsharma.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 <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 Shammas <george@shamm.as> <georgyo@gmail.com>  
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>  
Gerasimos Dimitriadis <gedimitr@gmail.com>  
Gergely Brautigam <skarlso777@gmail.com>  
Getulio Snchez <valentin2507@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 @andrius4669 (4699695) <andrius4669@gmail.com>  
GitHub User @as (8127015) <as.utf8@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 @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 @itchyny (375258) <itchyny@hatena.ne.jp>  
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>  
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>  
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>  
GitHub User @madiganz (18340029) <zacharywmadigan@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 @pytimer (17105586) <lixin20101023@gmail.com>  
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>  
GitHub User @shogo-ma (9860598) <Choroma194@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>  
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>  
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 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>  
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>  
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>  
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>  
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>  
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>  
Hossein Sheikh Attar <hattar@google.com>  
Hsin Tsao <tsao@google.com>  
Hsin-Ho Yeh <yhh92u@gmail.com>  
Hu Keping <hukeping@huawei.com>  
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>  
Igor Bernstein <igorbernstein@google.com>  
Igor Dolzhikov <bluesriverz@gmail.com>  
Igor Vashyst <ivashyst@gmail.com>  
Igor Zhilianin <igor.zhilianin@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>  
Irfan Sharif <irfanmahmoudsharif@gmail.com>  
Irieda Noboru <irieda@gmail.com>  
Isaac Ardis <isaac.ardis@gmail.com>  
Isaac Wagner <ibw@isaacwagner.me>  
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 Sharavuev <shpiwan@gmail.com>  
Ivan Ukhov <ivan.ukhov@gmail.com>  
Ivy Evans <ivy@ivyevans.net>  
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>  
Jack Britton <jackxbritton@gmail.com>  
Jack Lindamood <jlindamo@justin.tv>  
Jacob Baskin <jbaskin@google.com>  
Jacob H. Haven <jacob@cloudflare.com>  
Jacob Hoffman-Andrews <github@hoffman-andrews.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>  
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 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 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 Ziak <0xe2.0x9a.0x9b@gmail.com>  
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>  
Jared Culp <jculp14@gmail.com>  
Jaroslavas Poepko <jp@webmaster.ms>  
Jason A. Donenfeld <Jason@zx2c4.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 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-Francois Cantin <jfcantin@gmail.com>  
Jean-Marc Eurin <jmeurin@google.com>  
Jean-Nicolas Moal <jn.moal@gmail.com>  
Jed Denlea <jed@fastly.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 Jackins <jeremyjackins@gmail.com>  
Jeremy Schlatter <jeremy.schlatter@gmail.com>  
Jeroen Bobbeldijk <jrbob92@gmail.com>  
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 Franche <soapboxcicero@gmail.com>  
Jimmy Zelinskie <jimmyzelinskie@gmail.com>  
Jin-wook Jeong <jeweljar@hanmail.net>  
Jingcheng Zhang <diogin@gmail.com>  
Jingguo Yao <yaojingguo@gmail.com>  
Jiong Du <londdevil@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 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 Newlin <jnewlin@google.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>  
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>  
Jongmin Kim <atomaths@gmail.com>  
Joonas Kuorilehto <joneskoo@derbian.fi>  
Joop Kieft <ikojba@gmail.com> <joop@kiefte.net>  
Jordan Krage <jmank88@gmail.com>  
Jordan Lewis <jordanthelewis@gmail.com>  
Jordan Rhee <jordanrh@microsoft.com>  
Jos Visser <josv@google.com>  
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 Rubin <joshua@rubixconsulting.com>  
Josselin Costanzi <josselin@costanzi.fr>  
Jostein Stuhau <js@solidsystem.no>  
JP Sugarbroad <jpsugar@google.com>  
JT Olds <jtolds@xnet5.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>  
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>  
Junda Liu <junda@celer.network>  
Jungho Ahn <jhahn@google.com>  
Junya Hayashi <ledmonster@gmail.com>  
Jure Ham <jure.ham@zemanta.com>  
Justin Gracenin <jgracenin@gmail.com>  
Justin Nu <nuss.justin@gmail.com>  
Justyn Temme <justyntemme@gmail.com>  
Kai Backman <kaib@golang.org>  
Kai Trukenmller <ktye78@gmail.com>  
Kale Blankenship <kale@lemnisis.com>  
Kaleb Elwert <kelwert@atlassian.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>  
Karan Dhiman <karandhi@ca.ibm.com>  
Karel Pazdera <pazderak@gmail.com>  
Karoly Negyesi <chx1975@gmail.com>  
Karsten Khler <karsten.koehler95@gmail.com>  
Kashav Madan <kshvmdn@gmail.com>  
Kate Manson <kate.manson@izettle.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>  
Keith Ball <inflatablewoman@gmail.com>  
Keith Randall <chr@golang.org>  
Keith Rarick <kr@xph.us>  
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>  
Kenji Kaneda <kenji.kaneda@gmail.com>  
Kenji Yano <kenji.yano@gmail.com>  
Kenneth Shaw <kenshaw@gmail.com>

Kenny Grant <kennygrant@gmail.com>  
Kevin Ballard <kevin@sb.org>  
Kevin Burke <kev@inburke.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 Smelkov <kirr@nexedi.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>  
Komu Wairagu <komuw05@gmail.com>  
Konstantin <konstantin8105@gmail.com>  
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>  
Kris Kwiatkowski <kris@cloudflare.com>  
Kris Nova <kris@nivenly.com>  
Kris Rousey <krousey@google.com>  
Kristopher Watts <traetox@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>  
Leonel Quinteros <leonel.quinteros@gmail.com>  
Lev Shamardin <shamardin@gmail.com>  
Lewin Bormann <lewin.bormann@gmail.com>  
Lion Yang <lion@aosc.xyz>  
Lloyd Dewolf <foolswisdom@gmail.com>  
Lorenz Bauer <lmb@cloudflare.com>  
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>  
Lukasz Milewski <lmmilewski@gmail.com>  
Luke Curley <qpingu@gmail.com>  
Luke Granger-Brown <git@lukegb.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>  
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>  
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>  
Marin Bai <marin.basic02@gmail.com>  
Mario Arranz <marioarranzr@gmail.com>  
Marius Nuennerich <mnu@google.com>  
Mark Adams <mark@markadams.me>  
Mark Bucciarelli <mkbucc@gmail.com>  
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 Wolfe <mark@wolfe.id.au>  
Mark Zavislak <zavislak@google.com>  
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>  
Marko Kevac <marko@kevac.org>  
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 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>  
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 <matthewbroberg@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 Ushakov <ushmax@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 Darakananda <pongad@google.com>  
Michael Dorner <mail@michaeldorf.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 <mteichgraber@gmx.de> <mt4swm@googlemail.com>  
Michael Traver <mtraver@google.com>  
Michael Vetter <g.bluehut@gmail.com>  
Michal Bohuslvek <mbohuslvek@gmail.com>  
Michal Cierniak <cierniak@google.com>  
Micha Derkacz <ziutek@inet.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>  
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 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 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>



Miroslav Genov <mgenov@gmail.com>  
Misty De Meo <mistydemeo@gmail.com>  
Mohit Agarwal <mohit@sdf.org>  
Mohit kumar Bajoria <mohitbajo36@gmail.com>  
Momchil Velikov <momchil.velikov@gmail.com>  
Monis Khan <mkhan@redhat.com>  
Monty Taylor <mordred@inaugust.com>  
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>  
Mura Li <mura\_li@castech.com.tw>  
Nan Deng <monnand@gmail.com>  
Naoki Kanatani <k12naoki@gmail.com>  
Nate Wilkinson <nathanwilk7@gmail.com>  
Nathan Cantelmo <n.cantelmo@gmail.com>  
Nathan Caza <mastercactapus@gmail.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 <neeleesh.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 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>  
Niklas Schnelle <niklas.schnelle@gmail.com>  
Niko Dziemba <niko@dziemba.com>  
Nikolay Turpitko <nikolay@turpitko.com>  
Nils Larsgrd <nilsmagnus@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>  
Odin Ugedal <odin@ugedal.com>  
Oleg Bulatov <dimage@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 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>  
Paolo Giarrusso <p.giarrusso@gmail.com>  
Paolo Martini <mrtnpaolo@gmail.com>

Parker Moore <parkrmoore@gmail.com>  
Parminder Singh <parmsingh101@gmail.com>  
Pascal S. de Kloe <pascal@quies.net>  
Pat Moroney <pat@pat.email>  
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>  
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>  
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>  
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 Varanasi <prashant@prashantv.com>  
Pravendra Singh <hackpravj@gmail.com>  
Preetam Jinka <pj@preet.am>  
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 <sqsq@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>  
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 Saarelm <rsaarelm@gmail.com>  
Rob Earhart <earhart@google.com>  
Rob Norman <rob.norman@infinitycloud.com>  
Rob Phoenix <rob@robphoenix.com>

Rob Pike <r@golang.org>  
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 Seseke <rseseke@google.com>  
Robert Snedegar <roberts@google.com>  
Robert Stepanek <robert.stepanek@gmail.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>  
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>  
Roland Illig <roland.illig@gmx.de>  
Roland Shoemaker <rolandshoemaker@gmail.com>  
Roman Budnikov <romanyx90@yandex.ru>  
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 <rui@uoyama.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 <ribrd@b@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>  
Sai Cheemalapati <saicheems@google.com>  
Sakeven Jiang <jc5930@sina.cn>  
Salmn Aljammz <s@0x65.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>  
Sanjay Menakuru <balasanjay@gmail.com>  
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>  
Sarah Adams <shadams@google.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 <bytbox@gmail.com>  
Scott Mansfield <smansfield@netflix.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 Rees <sean@erifax.org>  
Sebastiaan van Stijn <github@gone.nl>  
Sebastian Schmidt <yath@google.com>  
Sebastien Binet <seb.binet@gmail.com>  
Sbastien Paolacci <sebastien.paolacci@gmail.com>  
Sebastien Williams-Wynn <sebastien@cytora.com>  
Seiji Takahashi <timaki.st@gmail.com>

Sergei Skorobogatov <skorobo@rambler.ru>  
Sergey 'Snake' Gromov <snake.scaly@gmail.com>  
Sergey Arseev <sergey.arseev@intel.com>  
Sergey Frolov <sfrolov@google.com>  
Sergey Lukjanov <me@slukjanov.name>  
Sergey Mishin <sergeymishine@gmail.com>  
Sergey Mudrik <sergey.mudrik@gmail.com>  
Sergey Semin <gray12511@gmail.com>  
Sergio Luis O. B. Correia <sergio@correia.cc>  
Sergiusz Bazanski <bazanski@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 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>  
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>  
Shivansh Rai <shivansh@freebsd.org>  
Shun Fan <sfan@google.com>  
Silvan Jegen <s.jegen@gmail.com>  
Simon Jefford <simon.jefford@gmail.com>  
Simon Rawet <simon@rawet.se>  
Simon Thulbourn <simon+github@thulbourn.com>  
Simon Whitehead <chemnova@gmail.com>  
Sina Siadat <siadat@gmail.com>  
Sokolov Yura <funny.falcon@gmail.com>  
Song Gao <song@gao.io>  
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>  
StalkR <stalkr@stalkr.net>  
Stan Schwertly <stan@schwertly.com>  
Stanislav Afanasev <php.progger@gmail.com>  
Steeve Morin <steeve.morin@gmail.com>  
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>



Stepan Shabalin <neverliberty@gmail.com>  
Stephan Rénatus <srenatus@chef.io>  
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 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 Littiebrant <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@darkowlz.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>  
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>  
Taesu Pyo <pyotaesu@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 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 Wanielista <tomwans@gmail.com>  
Thorben Krueger <thorben.krueger@gmail.com>  
Thordur Bjornsson <thorduri@secnorth.net>  
Tiago Queiroz <contato@tiago.eti.br>  
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 <xiaoxubei@gmail.com>  
Timo Savola <timo.savola@gmail.com>  
Timo Truys <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 Burress <kurin@google.com>  
Todd Neal <todd@tneal.org>  
Todd Wang <toddwang@gmail.com>  
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>  
Tommy Schaefer <tommy.schaefer@teecom.com>  
Tomoya Ishizaki <zaq1tomo@gmail.com>  
Tonis Tiigi <tonistiigi@gmail.com>  
Tony Reix <tony.reix@bull.net>  
Tony Walker <walkert.uk@gmail.com>  
Tor Andersson <tor.andersson@gmail.com>  
Tormod Erevik Lea <tormodlea@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>  
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>  
Uttam C Pawar <uttam.c.pawar@intel.com>  
Vadim Grek <vadimprog@gmail.com>  
Vadim Vygonets <unixdj@gmail.com>  
Val Polouchkine <vpolouch@justin.tv>  
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>  
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>  
Vitor De Mario <vitordemario@gmail.com>  
Vlad Krasnov <vlad@cloudflare.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>  
Volker Dobler <dr.volker.dobler@gmail.com>  
Volodymyr Paprotski <vpaprots@ca.ibm.com>  
W. Trevor King <wking@tremily.us>  
Wade Simmons <wade@wades.im>  
Walter Poupore <wpoupore@google.com>  
Wander Lairson Costa <wcosta@mozilla.com>  
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>  
Weichao Tang <tevic.tt@gmail.com>  
Wembley G. Leach, Jr <wembley.gl@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>  
Wisdom Omuya <deafgoat@gmail.com>  
Wu Yunzhou <yunzhouwu@gmail.com>  
Xi Ruoyao <xry23333@gmail.com>  
Xia Bin <snyh@snyh.org>  
Xing Xing <mikespook@gmail.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>  
Yann Hodique <yhodique@google.com>  
Yann Kerherv <yann.kerherve@gmail.com>  
Yann Salan <yannsalaun1@gmail.com>  
Yao Zhang <lunaria21@gmail.com>  
Yaron de Leeuw <jarondl@google.com>  
Yasha Bubnov <girokompas@gmail.com>  
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 <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>  
Yu Heng Zhang <annita.zhang@cn.ibm.com>  
Yu Xuan Zhang <zyxsh@cn.ibm.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>  
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>  
Zhou Peng <p@ctruple.cn>  
Ziad Hatahet <hatahet@gmail.com>  
Zorion Arrizabalaga <zorionk@gmail.com>  
<max.faceless.frei@gmail.com>  
<hagen1778@gmail.com>  
<tbunyk@gmail.com>  
<faxriddinjon@gmail.com>  
<zs349596@gmail.com>  
<bronze1man@gmail.com>

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@end macro
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@macro copyrightend{ }  
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@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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GSS-API mechglue layer.

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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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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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.

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## 1.46 libsemanage 2.7 2build2

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## 1.47 xorg 7.7+19ubuntu7.1

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Source Package: xorg

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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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Version 3, 29 June 2007

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## 1.56 iptables 1.6.1 2ubuntu2

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

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

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



compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the

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That's all there is to it!  
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

@c man end

@c man begin COPYRIGHT

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@c man end

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@node Copying

@c man begin DESCRIPTION

@unnumbered GNU General Public License

@center Version 3, 29 June 2007

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@item

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

@item

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## 1.58 perl 5.26.1 6ubuntu0.5

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

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---  
abstract: 'Build and install Perl modules'  
author:  
- 'Ken Williams <kwilliams@cpan.org>'  
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."  
build\_requires:  
File::Temp: 0.15  
Test::Harness: 3.16  
Test::More: 0.49  
generated\_by: 'Module::Build version 0.3608'  
license: gpl  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: Module-Build  
resources:  
MailingList: <mailto:module-build@perl.org>  
license: <http://dev.perl.org/licenses/>  
repository: <http://github.com/dagolden/module-build/>  
version: 3

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```
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```

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

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

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

```
This program is free software; you can redistribute it and/or modify  
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the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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```

```
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```

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

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

That's all there is to it!

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

```

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

```



```

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}

```

## 1.59 pcre 8.39-12ubuntu0.1

### 1.59.1 Available under license :

PCRE LICENCE

-----

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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

THE BASIC LIBRARY FUNCTIONS

-----

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

University of Cambridge Computing Service,  
 Cambridge, England.

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## PCRE JUST-IN-TIME COMPILATION SUPPORT

-----

Written by: Zoltan Herczeg  
Email local part: hzmester  
Email domain: freemail.hu

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## STACK-LESS JUST-IN-TIME COMPILER

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Written by: Zoltan Herczeg  
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## THE C++ WRAPPER FUNCTIONS

-----

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## 1.60 libxext 1.3.3-1

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# 1.61 cron 3.0pl1 136ubuntu1

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

```
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 *
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 * user.
 *
 * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
 * I'll try to keep a version up to date. I can be reached as follows:
 * Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
 */
```

\$Id: 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/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-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
# */
```

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/1223164981\_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

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.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1
```

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*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/externs.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/pathnames.h
```

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

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/bitstring.3
```

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```
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```

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*
```

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* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
```

```
* I'll try to keep a version up to date. I can be reached as follows:
```

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

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-
```

3.0pl1.orig/do\_command.c  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c  
\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c

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\*  
\* @(#)bitstring.h 5.2 (Berkeley) 4/4/90  
\*/

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h
```

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/*
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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/popen.c
```

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.\\" * user.
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```
.\\" *
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```
.\\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
```

```
.\\" * I'll try to keep a version up to date. I can be reached as follows:
```

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

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

```
.\\"
```

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

.\"

Found in path(s):

\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5

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.\" \* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul

.\" \*/

.\"

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

.\"

Found in path(s):

\* /opt/cola/permits/1223164981\_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8

## 1.62 libxml2 2.9.4+dfsg1-6.1ubuntu1.7

### 1.62.1 Available under license :

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## 1.63 sysv-init 2.88dsf 59.10ubuntu1

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Version 2, June 1991

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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# 1.64 etcd-raft 3.3.15+incompatible

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Protocol Buffers for Go with Gadgets

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

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

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## 1.69 sqlite 3.22.0-1ubuntu0.4



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## 1.71 findutils 4.7.0 1ubuntu1

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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](mailto:johan.brandhorst@gmail.com)>

John Shahid <[jvshahid@gmail.com](mailto:jvshahid@gmail.com)>

John Tuley <john@tuley.org>  
Laurent <laurent@adyoulike.com>  
Patrick Lee <patrick@dropbox.com>  
Peter Edge <peter.edge@gmail.com>  
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## 1.74 libseccomp 2.5.1-1ubuntu1~18.04.2

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## 1.75 zstd 1.3.3+dfsg 2ubuntu1

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## 1.76 libsepol 2.7-1

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This is the Debian packe for libsepol, and it is built from sources obtained from <http://userspace.selinuxproject.org/releases/current/devel/>

This package was debianized by Russell Coker <[russell@coker.com.au](mailto:russell@coker.com.au)> on Fri, 20 Aug 2004 17:26:18 +1000.

libsepol is

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

## 1.77 e2fsprogs 1.44.1 1ubuntu1.4

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

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o  
23-June-2007

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

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

That's all there is to it!

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

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

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

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

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

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

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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) $(LD_FLAGS_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)
```

```
@-$(LD_CONFIG)
```

```
install-strip: install
```

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

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

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

```
clean::
```

```
$(RM) -rf pic
```

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

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

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

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

[tsx-11.mit.edu/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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Gadi Oxman, August 1995

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Version 2, June 1991

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## END OF TERMS AND CONDITIONS

### Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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## 1.78 nmccclain-asn1-ber 0.0.0- 20170104154839-2661553a0484

### 1.78.1 Available under license :

The MIT License (MIT)

Copyright (c) 2011-2015 Michael Mitton (mmitton@gmail.com)  
Portions copyright (c) 2015-2016 go-asn1-ber Authors

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# 1.79 gophercloud 0.0.0-20190126172459-c818fa66e4c8

## 1.79.1 Available under license :

```
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}
```

```

}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"`
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"`
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"`
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

```

Contributor Tutorial

=====

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful

that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

=====

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a very rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

-----

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for each field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### ### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for `_each_` call.

The following Pull Requests are good examples of how to do this:

- \* <https://github.com/gophercloud/gophercloud/pull/584>
- \* <https://github.com/gophercloud/gophercloud/pull/586>
- \* <https://github.com/gophercloud/gophercloud/pull/587>
- \* <https://github.com/gophercloud/gophercloud/pull/594>

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### ### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

### What to Include in a Pull Request

-----

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### ### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### ### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### ### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

### Dealing with Related Pull Requests

-----

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### ### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```
```



...

Advantages of this Method:

- \* Pull Requests can be merged in any order
- \* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

- \* There will be a lot of duplicate code in each Pull Request
- \* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```
```

Advantages of this Method:

- \* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

- \* If a Pull Request requires changes, you will have to rebase all child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

## Step 6: Code Review

=====

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
  - a. Unit Tests
  - b. Code Formatting checks
  - c. ``go vet`` checks
2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a ``[wip]`` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### ### Travis-CI

If Travis reports code formatting issues, please make sure to run ``gofmt`` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### ### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is ``_sometimes_`` unavoidable and ignorable.

### ### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential

that you've run them yourself (See [Step 4](step-04.md)).

## Request a Code Review

-----

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information.

Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

## Submitting Changes

-----

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

## It's Never Personal

-----

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

```
import (  
    "fmt"  
    "net/http"  
    "testing"  
  
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"  
    th "github.com/gophercloud/gophercloud/testhelper"  
    "github.com/gophercloud/gophercloud/testhelper/client"  
)  
  
// ListResult provides a single page of RESOURCE results.  
const ListResult = `  
{  
}  
`  
  
// GetResult provides a Get result.  
const GetResult = `  
{  
}  
`  
  
// CreateRequest provides the input to a Create request.  
const CreateRequest = `  
{  
}  
`  
  
// UpdateRequest provides the input to as Update request.  
const UpdateRequest = `  
{  
}  
`  
  
// UpdateResult provides an update result.  
const UpdateResult = `  
{  
}  
`  
  
// FirstResource is the first resource in the List request.  
var FirstResource = resources.Resource{ }  
  
// SecondResource is the second resource in the List request.  
var SecondResource = resources.Resource{ }
```

```

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the

```

```

// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)

        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)

```

```

if opts != nil {
    query, err := opts.ToResourceListQuery()
    if err != nil {
        return pagination.Pager{Err: err}
    }
    url += query
}
return pagination.NewPager(client, url, func(r pagination.PageResult) pagination.Page {
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {

```

```

_, r.Err = client.Delete(deleteURL(client, id), nil)
return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{ }, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{ }, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0

```



```

err := resources.List(client.ServiceClient(), nil).EachPage(func(page pagination.Page) (bool, error) {
    count++

    actual, err := resources.ExtractResources(page)
    th.AssertNoErr(t, err)

    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

    return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResource, *actual)
}

```

```

}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

```

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package RESOURCE

```
import "github.com/gophercloud/gophercloud"
```

```
func listURL(client *gophercloud.ServiceClient) string {  
    return client.ServiceURL("resource")  
}
```

```
func getURL(client *gophercloud.ServiceClient, id string) string {  
    return client.ServiceURL("resource", id)  
}
```

```
func createURL(client *gophercloud.ServiceClient) string {  
    return client.ServiceURL("resource")  
}
```

```
func deleteURL(client *gophercloud.ServiceClient, id string) string {  
    return client.ServiceURL("resource", id)  
}
```

```
func updateURL(client *gophercloud.ServiceClient, id string) string {  
    return client.ServiceURL("resource", id)  
}
```

Step 7: Congratulations!

=====

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

#### Step 4: Acceptance Testing

=====

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you must be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [[here](#)](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/\*

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

\*/

package RESOURCE

## Step 2: Create an Issue

=====

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

### Reporting a Bug

-----

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

- \* <https://github.com/gophercloud/gophercloud/issues/108>
- \* <https://github.com/gophercloud/gophercloud/issues/212>
- \* <https://github.com/gophercloud/gophercloud/issues/424>
- \* <https://github.com/gophercloud/gophercloud/issues/588>
- \* <https://github.com/gophercloud/gophercloud/issues/629>
- \* <https://github.com/gophercloud/gophercloud/issues/647>

### Feature Request

-----

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

#### ### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect `_all_` of Gophercloud.

The following issues are examples of core change discussions:

- \* <https://github.com/gophercloud/gophercloud/issues/310>
- \* <https://github.com/gophercloud/gophercloud/issues/613>
- \* <https://github.com/gophercloud/gophercloud/issues/729>



\* <https://github.com/gophercloud/gophercloud/issues/713>

### ### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

\* <https://github.com/gophercloud/gophercloud/issues/620>

\* <https://github.com/gophercloud/gophercloud/issues/621>

\* <https://github.com/gophercloud/gophercloud/issues/658>

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](<https://github.com/gophercloud/gophercloud/issues/749>) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### ### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

\* <https://github.com/gophercloud/gophercloud/issues/715>

\* <https://github.com/gophercloud/gophercloud/issues/719>

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### ### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

\* <https://github.com/gophercloud/gophercloud/issues/539>

\* <https://github.com/gophercloud/gophercloud/issues/555>

\* <https://github.com/gophercloud/gophercloud/issues/571>

\* <https://github.com/gophercloud/gophercloud/issues/583>

\* <https://github.com/gophercloud/gophercloud/issues/605>

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for `_issues_`, but it's usually a good idea to provide them, anyway. These links `_are required_` for PRs and that will be covered in detail in a later step of this tutorial.

### ### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

\* <https://github.com/gophercloud/gophercloud/issues/723>

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

### Step 3: Code Hunting

=====

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:

[<https://github.com/gophercloud/gophercloud/issues/621>](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for ``availability_zone_hints`` to the ``networking/v2/networks`` package.

Meaning, we want to change:

```
```go
type Network struct {
    ID      string `json:"id"`
    Name    string `json:"name"`
    AdminStateUp bool   `json:"admin_state_up"`
    Status  string `json:"status"`
    Subnets []string `json:"subnets"`
}
```

```
TenantID string `json:"tenant_id"`
Shared   bool  `json:"shared"`
}
...

```

to look like

```
```go
type Network struct {
    ID            string `json:"id"`
    Name          string `json:"name"`
    AdminStateUp  bool   `json:"admin_state_up"`
    Status        string `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID      string `json:"tenant_id"`
    Shared        bool   `json:"shared"`

    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
...

```

We need to be sure that ``availability_zone_hints`` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that ``availability_zone_hints`` is really a ``[]string`` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](<https://developer.openstack.org/api-ref/network/v2/>). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are not implying > that the API docs aren't useful or that the contributors who work on the API > docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update > documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of ``availability_zone_hints`` in the following piece of code:

<https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191>

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is `_not_` fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

- \* <https://github.com/gophercloud/gophercloud/issues/539>
- \* <https://github.com/gophercloud/gophercloud/issues/555>
- \* <https://github.com/gophercloud/gophercloud/issues/571>
- \* <https://github.com/gophercloud/gophercloud/issues/583>
- \* <https://github.com/gophercloud/gophercloud/issues/605>

### Code Hunting Tips

-----

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

- \* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.
- \* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.
- \* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

#### Step 1: Read Our Guides

=====

There are two introductory guides you should read before proceeding:

- \* [CONTRIBUTING](/github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

- \* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used

in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

## 1.80 soheilhy-cmux 0.1.5

### 1.80.1 Available under license :

```
# The list of people who have contributed code to the cmux repository.
#
# Auto-generated with:
# git log --oneline --pretty=format:'%an <%aE>' | sort -u
#
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>
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## 1.82 google-protobuf 3.12.2

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Protocol Buffers - Google's data interchange format

=====

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This directory contains the JavaScript Protocol Buffers runtime library.

The library is currently compatible with:

1. CommonJS-style imports (eg. ``var protos = require('my-protos');``)
2. Closure-style imports (eg. ``goog.require('my.package.MyProto');``)

Support for ES6-style imports is not implemented yet. Browsers can be supported by using Browserify, webpack, Closure Compiler, etc. to resolve imports at compile time.

To use Protocol Buffers with JavaScript, you need two main components:

1. The protobuf runtime library. You can install this with ``npm install google-protobuf``, or use the files in this directory. If npm is not being used, as of 3.3.0, the files needed are located in binary subdirectory; `arith.js`, `constants.js`, `decoder.js`, `encoder.js`, `map.js`, `message.js`, `reader.js`, `utils.js`, `writer.js`
2. The Protocol Compiler ``protoc``. This translates ``proto`` files into ``js`` files. The compiler is not currently available via npm, but you can download a pre-built binary [on GitHub](<https://github.com/protocolbuffers/protobuf/releases>) (look for the ``protoc-*.zip`` files under **Downloads**).

## Setup

=====

First, obtain the Protocol Compiler. The easiest way is to download a pre-built binary from [<https://github.com/protocolbuffers/protobuf/releases>](<https://github.com/protocolbuffers/protobuf/releases>).

If you want, you can compile ``protoc`` from source instead. To do this follow the instructions in [the top-level README](<https://github.com/protocolbuffers/protobuf/blob/master/src/README.md>).

Once you have ``protoc`` compiled, you can run the tests by typing:

```
$ cd js
```

```
$ npm install
```

```
$ npm test
```

```
# If your protoc is somewhere else than ../src/protoc, instead do this.
```

```
# But make sure your protoc is the same version as this (or compatible)!
```

```
$ PROTOC=/usr/local/bin/protoc npm test
```

This will run two separate copies of the tests: one that uses Closure Compiler style imports and one that uses CommonJS imports.

You can see all the CommonJS files in `commonjs_out/``.

If all of these tests pass, you know you have a working setup.

## Using Protocol Buffers in your own project

=====

To use Protocol Buffers in your own project, you need to integrate the Protocol Compiler into your build system. The details are a little different depending on whether you are using Closure imports or CommonJS imports:

### Closure Imports

-----

If you want to use Closure imports, your build should run a command like this:

```
$ protoc --js_out=library=myproto_libs,binary:. messages.proto base.proto
```

For Closure imports, `protoc`` will generate a single output file (`myproto_libs.js`` in this example). The generated file will `goog.provide(`` all of the types defined in your `.proto` files. For example, for the unit tests the generated files contain many `goog.provide`` statements like:

```
goog.provide('proto.google.protobuf.DescriptorProto');
goog.provide('proto.google.protobuf.DescriptorProto.ExtensionRange');
goog.provide('proto.google.protobuf.DescriptorProto.ReservedRange');
goog.provide('proto.google.protobuf.EnumDescriptorProto');
goog.provide('proto.google.protobuf.EnumOptions');
```

The generated code will also `goog.require(`` many types in the core library, and they will require many types in the Google Closure library. So make sure that your `goog.provide(`` / `goog.require(`` setup can find all of your generated code, the core library `.js`` files in this directory, and the Google Closure library itself.

Once you've done this, you should be able to import your types with statements like:

```
goog.require('proto.my.package.MyMessage');
```

```
var message = proto.my.package.MyMessage();
```

If unfamiliar with Closure or its compiler, consider reviewing Closure documentation

<https://developers.google.com/closure/library/docs/tutorial>

<https://developers.google.com/closure/library/docs/closurebuilder>

<https://developers.google.com/closure/library/docs/depswriter>

At a high level, `closurebuilder.py` can walk dependencies, and compile your code, and all dependencies for Protobuf into a single `.js` file. Using `depsbuilder.py` to generate a dependency file can also be considered for non-production dev environments.

CommonJS imports

-----

If you want to use CommonJS imports, your build should run a command like this:

```
$ protoc --js_out=import_style=commonjs,binary:. messages.proto base.proto
```

For CommonJS imports, `protoc`` will spit out one file per input file (so `messages_pb.js`` and `base_pb.js`` in this example). The generated code will depend on the core runtime, which should be in a file called `google-protobuf.js``. If you are installing from `npm``, this file should already be built and available. If you are running from GitHub, you need to build it first by running:

```
$ gulp dist
```

Once you've done this, you should be able to import your types with statements like:

```
var messages = require('./messages_pb');
```

```
var message = new messages.MyMessage();
```

The `--js_out`` flag

-----

The syntax of the `--js_out`` flag is:

```
--js_out=[OPTIONS:]output_dir
```

Where `OPTIONS`` are separated by commas. Options are either `opt=val`` or just `opt`` (for options that don't take a value). The available options

are specified and documented in the `GeneratorOptions`` struct in

`[src/google/protobuf/compiler/js/js_generator.h](https://github.com/protocolbuffers/protobuf/blob/master/src/google`



/protobuf/compiler/js/js\_generator.h#L53).

Some examples:

```
- `--js_out=library=myprotos_lib.js,binary:.`: this contains the options  
`library=myprotos.lib.js` and `binary` and outputs to the current directory.  
The `import_style` option is left to the default, which is `closure`.  
- `--js_out=import_style=commonjs,binary:protos`: this contains the options  
`import_style=commonjs` and `binary` and outputs to the directory `protos`.  
`import_style=commonjs_strict` doesn't expose the output on the global scope.
```

## API

===

The API is not well-documented yet. Here is a quick example to give you an idea of how the library generally works:

```
var message = new MyMessage();  
  
message.setName("John Doe");  
message.setAge(25);  
message.setPhoneNumbers(["800-555-1212", "800-555-0000"]);  
  
// Serializes to a Uint8Array.  
var bytes = message.serializeBinary();  
  
var message2 = MyMessage.deserializeBinary(bytes);
```

For more examples, see the tests. You can also look at the generated code to see what methods are defined for your generated messages.

Found in path(s):

```
* /opt/cola/permits/1166221982_1621364900.64/0/google-protobuf-3-12-2-tgz/package/README.md
```

# 1.83 prometheus-common 0.18.0

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# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
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>  
Aaron Stein <aaronstein12@gmail.com>  
Aaron Torres <tcboox@gmail.com>  
Aaron Zinman <aaron@azinman.com>  
Aarti Parikh <aarti.parikh@gmail.com>  
Abdullah Al Maruf <mymail.maruf@gmail.com>  
Abe Haskins <abeisgreat@abeisgreat.com>  
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>  
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 W. Mones <oneofone@gmail.com>  
Ahmet Aktrk <aakturk000@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>  
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 Sergeyev <abc@alexsergeyev.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@igneoussystems.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 Striblehill <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 <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>  
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@bzzt.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 <asselmeher@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@cryptosophy.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 <bobqqin@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@teambrod.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 <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>  
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+chrissstomas@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>

Clement Chigot <clement.chigot@atos.net>  
Clement Skau <clementska@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 <computerdruid@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 Koliustratova <daria.koliustratova@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 Zaremba <fabian@youremail.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 @frenkie (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 @renthrayask (30576707) <renthrayask@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) <Chorama194@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 Dolzhevik <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 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 <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@shooboxapp.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 <jameliu@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 <0xjnm@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 <jjiulongw@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 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 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 Kieft <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 Vzquez Gonzlez <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 <jcJoshuaChase@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 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@quantumfyr.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 Douglas <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 <keypar@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 Tsanaktisidis <ktsanaktisidis@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 <unpantso@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 Batlle 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 <mdlayher@gmail.com>  
Matt Masurka <masurka@google.com>  
Matt Pearring <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 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>

Matthias Dtsch <matze@mdoetsch.de>  
Matthias Frei <matthias.frei@inf.ethz.ch>  
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>  
Matthieu Olivier <olivier.matthieu@gmail.com>  
Matthijs Kooijman <matthijs@stdin.nl>  
Mattias Appelgren <mattias@ppelgren.se>  
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>  
Max Drosdo.www <glran1q@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 <mteichgraber@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@inet.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 Levieux <mlevieux42@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 <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>  
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 <neelesh.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 Mengu <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 <pnby@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.yuz7777@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 Seseke <rseseke@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 <rui@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 <ribrd@b@gmail.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@setsm.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 <seankhiao@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 <gs serge@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 <serhatgiydiren@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 <sding3@ncsu.edu>  
Shaozhen Ding <dsz0111@gmail.com>  
Shaquille Que <shaquille@golang.org>  
Shaquille Wyan Que <shaqwywan@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 <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 <sfllaw@sfllaw.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 <liyuancylix@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 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>  
Steve Traut <strauf@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 Littlebrant <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@darkowlz.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 <xiaoxubei@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@timstudd.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 Burress <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 <oohry@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 Paprotski <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 Chongnguluum <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 <girokompass@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>  
<hagen1778@gmail.com>  
<tbunyk@gmail.com>  
<faxriddinjon@gmail.com>  
<zs349596@gmail.com>  
<bronze1man@gmail.com>  
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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>
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```

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-----  
doc/FAQ ("the Bash FAQ")

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support/man2html.c

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## 1.87 libxau 1.0.8 1

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# 1.88 x-lint 0.0.0-20201208152925-83fdc39ff7b5

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# 1.89 ishidawataru-sctp 0.0.0-20210226210310-f2269e66cdee

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```

Found in path(s):

```
* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-  
e910243/src/main/java/com/mifmif/common/regex/GenerexIterator.java  
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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-  
e910243/src/main/java/com/mifmif/common/regex/Generex.java
```

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\* /opt/cola/permits/1257332954\_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/test/java/com/mifmif/common/regex/GenerexUnitTest.java

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```
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    </developer>
    <developer>
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    <configuration>
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```

```
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<artifactId>maven-release-plugin</artifactId>
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<preparationGoals>package install:install-file</preparationGoals>
<scmCommentPrefix>#3</scmCommentPrefix>
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<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-deploy-plugin</artifactId>
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<artifactId>maven-source-plugin</artifactId>
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</executions>
</plugin>
```

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<executions>
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<id>attach-javadocs</id>
<goals>
<goal>jar</goal>
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</execution>
</executions>
</plugin>
```

```
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  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-gpg-plugin</artifactId>
  <executions>
    <execution>
      <id>sign-artifacts</id>
      <phase>deploy</phase>
      <goals>
        <goal>sign</goal>
      </goals>
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  </executions>
</plugin>
```

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  <groupId>org.sonatype.plugins</groupId>
  <artifactId>nexus-staging-maven-plugin</artifactId>
  <version>1.6.3</version>
  <executions>
    <execution>
      <id>default-deploy</id>
      <phase>deploy</phase>
      <goals>
        <goal>deploy</goal>
      </goals>
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  <extensions>true</extensions>
  <configuration>
    <serverId>ossrh</serverId>
    <nexusUrl>https://oss.sonatype.org/</nexusUrl>
  </configuration>
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<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-pmd-plugin</artifactId>
  <version>3.6</version>
  <configuration>
    <failOnViolation>true</failOnViolation>
    <excludeRoots>
      <excludeRoot>target/generated-sources/plugin</excludeRoot>
    </excludeRoots>
    <excludes>
      <exclude>*/HelpMojo.java</exclude>
    </excludes>
  </configuration>
</plugin>
```

```

</excludes>
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<artifactId>cobertura-maven-plugin</artifactId>
<version>2.6</version>
<configuration>
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</check>
<instrumentation>

```

```

<excludes>
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    <phase>verify</phase>
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      <goal>cobertura</goal>
    </goals>
  </execution>
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</plugin>
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  <artifactId>javancss-maven-plugin</artifactId>
  <version>2.0</version>
  <configuration>
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    <ccnLimit>10</ccnLimit>
    <ncssLimit>100</ncssLimit>
    <failOnViolation>true</failOnViolation>
    <excludes>
      <exclude>**/tests/**/*.*</exclude>
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  <executions>
    <execution>
      <goals>
        <goal>check</goal>
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    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>findbugs-maven-plugin</artifactId>
  <version>3.0.3</version>
  <configuration>
    <encoding>${project.build.sourceEncoding}</encoding>
    <failOnError>true</failOnError>
    <excludeFilterFile>findBugsExclude.xml</excludeFilterFile>
  </configuration>
  <executions>
    <execution>

```

```
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</goals>
</execution>
</executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>jdepend-maven-plugin</artifactId>
  <version>2.0</version>
</plugin>
</plugins>
</build>
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  <dependency>
    <groupId>dk.brics.automaton</groupId>
    <artifactId>automaton</artifactId>
    <version>1.11-8</version>
  </dependency>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.12</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>hamcrest-junit</artifactId>
    <version>2.0.0.0</version>
    <scope>test</scope>
  </dependency>
</dependencies>
</project>
```

Found in path(s):

\* /opt/cola/permits/1257332954\_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/pom.xml

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Found in path(s):

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\*/

Found in path(s):

\* /opt/cola/permits/1257332954\_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-910243/src/test/java/com/mifmif/common/regex/GenerexIteratorUnitTest.java

## 1.91 lz4 0.0~r131 2ubuntu3

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Upstream-Name: liblz4

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

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

Files: \*

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1992 A. V. Le Blanc (LeBlanc@mcc.ac.uk)

1992-1997 Michael K. Johnson, johnsonm@redhat.com

1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002,

2003, 2004, 2005, 2008 Theodore Ts'o <tytso@mit.edu>

1994 Kevin E. Martin (martin@cs.unc.edu)

1994 Salvatore Valente <svalente@mit.edu>

1994,1996 Alessandro Rubini (rubini@ipvvis.unipv.it)

1994-2005 Jeff Tranter (tranter@pobox.com)

1995, 1999, 2000 Andries E. Brouwer <aeb@cwi.nl>

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2005 Adrian Bunk

2007-2014 Karel Zak <kzak@redhat.com>

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2008 Cai Qian <qcai@redhat.com>

2008 Hayden A. James (hayden.james@gmail.com)

2008 James Youngman <jay@gnu.org>

2008 Roy Peled, the.roy.peled -at- gmail.com  
2009 Mikhail Gusarov <dottedmag@dottedmag.net>  
2010, 2011, 2012 Davidlohr Bueso <dave@gnu.org>  
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2001 Andreas Dilger (adilger@turbolinux.com)

2004-2008 Kay Sievers <kay.sievers@vrfy.org>

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2009 Bastian Friedrich <bastian.friedrich@collax.com>

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2011 Philipp Marek <philipp.marek@linbit.com>

2012 Milan Broz <mbroz@redhat.com>

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## 1.99 python 2.7.17

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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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## 1.102 zap 1.18.1

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# 1.103 ncurses 6.2 Oubuntu2

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

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

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

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

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

```
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.

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 a sample; alter the names:

```
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
```

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Version 3, 29 June 2007

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## 1.106 spf13-pflag 1.0.5

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Authors with a FSF copyright assignment

=====

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 Libgrypt.

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/tsexp.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  
Assigns Past and Future Changes  
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 Mller 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>

2014-08-22:2008899.25OeoeIVVA@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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```
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Upstream-Name: libpsl

Source: <https://github.com/rockdaboot/libpsl>

Files: \*

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Files: debian/\*

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Files: src/psl-make-dafsa src/lookup\_string\_in\_fixed\_set.c

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## 1.111 pkg-sftp 1.10.1

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Dave Cheney <dave@cheney.net>

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# 1.113 libunistring 0.9.10 2

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```
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```

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```
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@c Local Variables:

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

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## 1.114 spew 1.1.1

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 * @(#)SecuritySupport.java 1.3 05/11/16
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* @(#)ImageViewerCanvas.java 1.3 05/11/16
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* @(#)DataContentHandlerFactory.java 1.6 05/11/16
*
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\* @(#)URLDataSource.java 1.10 05/11/16

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* @(#)MailcapCommandMap.java 1.40 05/11/16
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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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* @(#)MimeTypeParameterList.java 1.11 05/11/16
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\* @(#)CommandMap.java 1.19 05/11/16

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/*
* @(#)MimeTypeParseException.java 1.6 05/11/16
*
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```

Found in path(s):

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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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* @(#)DataHandler.java 1.39 05/11/16
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 * @(#)UnsupportedDataException.java 1.9 05/11/16
 *
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* @(#)MimeType.java 1.19 05/11/16
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```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/registries/LogSupport.java
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*/
/*
```

\* @(#)DataContentHandler.java 1.16 05/11/16  
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Found in path(s):

\* /opt/cola/permits/1200523838\_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/DataContentHandler.java

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\* @(#)ActivationDataFlavor.java 1.14 05/11/16  
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\* /opt/cola/permits/1200523838\_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/ActivationDataFlavor.java

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/*
* @(#)MimeTypeFile.java 1.8 05/11/16
*
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*/
```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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/*
* @(#)TextEditor.java 1.8 05/11/16
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```

\*/

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\* /opt/cola/permits/1200523838\_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/viewers/TextEditor.java

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\* @(#)MailcapFile.java 1.23 05/11/16

\*

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*/
/*
* @(#)MailcapTokenizer.java 1.6 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```

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@(#)package.html 1.1 05/11/16
```

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\* @(#)MailcapParseException.java 1.4 05/11/16

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/*
* @(#)MimetypesFileTypeMap.java 1.17 05/11/16
*
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```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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@(#)ImageViewer.java 1.8 05/11/16
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(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming,

converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

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

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

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

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

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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#### END OF TERMS AND CONDITIONS

## Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

## Preamble

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can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations below.

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

We protect your rights with a two-step method: (1) we copyright the  
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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in

non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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and what the program that uses the Library does.

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based



on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

therefore falls outside the scope of this License.

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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and:

<cvs://pserver:anoncvs@sources.redhat.com:/cvs/src>

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## 1.117 base-passwd 3.5.44

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*



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Files: passwd.master, group.master

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## 1.119 python-meld3 1.0.2-2

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- Tres Seaver, 2006-02-09

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```
*  
* cvt - IEEE floating point formatting routines.  
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*
```

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\*/

```
package java.security;
```

```
import java.io.Serializable;
```

```
/**
```

```
* Legacy security code; do not use.
```

```
*/
```

```
public abstract class Permission implements Guard, Serializable {  
    public Permission(String name) { }
```

```
    public final String getName() { return null; }
```

```
    public void checkGuard(Object obj) throws SecurityException { }
```

```
    public PermissionCollection newPermissionCollection() {  
        return new AllPermissionCollection();  
    }
```

```
    public abstract String getActions();
```

```
    public abstract boolean implies(Permission permission);
```

```
}
```

```
=====  
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=====
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- \* file name: UBiDiProps.java
- \* encoding: US-ASCII
- \* tab size: 8 (not used)
- \* indentation:4
- \*
- \* created on: 2005jan16
- \* created by: Markus W. Scherer
- \*
- \* Low-level Unicode bidi/shaping properties access.
- \* Java port of ubidi\_props.h/c.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the `Replaceable` API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the **bold** font" has range (4, 8) replaced with "strong", then it becomes "the **strong** font".

`Replaceable` specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

`Replaceable` also includes API to access characters in the string: `length()`, `charAt()`, `char32At()`, and `extractBetween()`.

For a subclass to support metadata, typical behavior of `replace()` is the following:

- 

- Set the metadata of the new text to the metadata of the first character replaced

- If no characters are replaced, use the metadata of the previous character

- If there is no previous character (i.e. start == 0), use the following character

- If there is no following character (i.e. the replaceable was empty), use default metadata

- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

- 



If this is not the behavior, the subclass should document any differences.

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@author Alan Liu

@stable ICU 2.0

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`ReplaceableString` is an adapter class that implements the `Replaceable` API around an ordinary `StringBuffer`.

**Note:** This class does not support attributes and is not intended for general use. Most clients will need to implement `Replaceable` in their text representation class.

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@see Replaceable  
@author Alan Liu  
@stable ICU 2.0

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JUnit

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

## 1.127 jaxb-core 2.2.11

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## 1.128 google-go-cmp 0.5.5

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## 1.129 openzipkin-contrib-zipkin-go-opentracing 0.4.5



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```
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```

```
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```
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```

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</html>

```

# 1.134 gopsutil 2.20.9+incompatible

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## 1.146 keyutils 1.6-6ubuntu1.1

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## 1.147 shadow 4.5 1ubuntu2

### 1.147.1 Available under license :

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# 1.150 gogoprotobuf 1.3.1

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Protocol Buffers for Go with Gadgets

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Anton Povorov <[anton.povorov@gmail.com](mailto:anton.povorov@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](mailto: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 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>

## 1.151 json-iterator-go 1.1.11

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# 1.158 meld 1.0.2

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\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/ParserContext.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpNE.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/ExpressionException.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpDivide.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/AccessException.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/TypeConverter.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/support/StandardTypeComparator.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpInc.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpMinus.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/FormatHelper.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OperatorInstanceof.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-

jar/org/springframework/expression/spel/standard/SpelExpression.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/Identifier.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/ValueRef.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/common/ExpressionUtils.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/common/LiteralExpression.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/PropertyAccessor.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/CompoundExpression.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpAnd.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/OperatorOverloader.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpMultiply.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/Ternary.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/Indexer.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/ParseException.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/SpelNode.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/Elvis.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/InlineList.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/Literal.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/VariableReference.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/support/StandardTypeLocator.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/standard/Token.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-

jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/SpelParseException.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/InlineMap.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/Operator.java  
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Found in path(s):

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/standard/SpelExpressionParser.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpGE.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/StringLiteral.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OperatorNot.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OperatorPower.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpGT.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/SpelCompilerMode.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/Assign.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/CompilablePropertyAccessor.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/TypeCode.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpLT.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorBetween.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/RealLiteral.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OpLE.java  
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\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/ConstructorResolver.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/standard/TokenKind.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/BooleanLiteral.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/TypeLocator.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OpEQ.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/FloatLiteral.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/EvaluationException.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/LongLiteral.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/SpelEvaluationException.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/Selection.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/BeanResolver.java

\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-

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Upstream-Name: auditd

Source: <https://people.redhat.com/sgrubb/audit/>

Files: \*

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## 1.164 systemd 237-3ubuntu10.25

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

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Chazelas, Stephane  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve

Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, YOSHIFUJI  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Pele Jorge, Joel  
Juhani, Timo  
KIKUCHI, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.

Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
SATO, Yuichi  
Snchez, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor

Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Ferreira, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe

Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Qun, Trn Ngc  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

## 1.170 go-errors-errors 1.2.0

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# 1.171 libseccomp 2.4.1 Ubuntu0.18.04.2

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# 1.173 gpm 1.20.7-5

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1994-2000 Alessandro Rubini <[rubini@linux.it](mailto:rubini@linux.it)>

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1997-1999 James Troup <james@nocrew.org>

1998 Franois Gouget <fgouget@mygale.org>

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License.  
Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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## 1.179 go-uber-org-multierr 1.7.0

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## 1.182 yerden-go-util 1.1.3



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Files:

exports

include/\*.h

libacl/\*.c

libacl/\*.h

libmisc/\*.c

tools/do\_set.\*

tools/parse.\*

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X
    This file is generated from xml source: DO NOT EDIT
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X
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Sidebar - Default font size" />
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href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
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<div class="bottomlang">

<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>

</div><div class="top"><a href="#page-header"></a></div><div

class="section"><h2><a id="comments\_section" name="comments\_section">Comments</a></h2><div

class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be

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<script type="text/javascript"><!--<!--><![CDATA[</><!--</script>

var comments\_shortname = 'httpd';

var comments\_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments\_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show\_comments.lua?site=' + comments\_shortname + '&page=' +

comments\_identifier;

```

    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
!--><![></script></div><div id="footer">
<p class="apache">Copyright 2017 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[</><!--
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--><![></script>
</body></html>

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For the server\util\_md5.c component:

```

/*****

```

```

* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications

```

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```
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

```
*/
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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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2009-2012, Jim Meyering <[jim@meyering.net](mailto:jim@meyering.net)> and Paolo Bonzini <[bonzini@gnu.org](mailto:bonzini@gnu.org)>

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2003-2004 Ryan M. Golbeck <[rmgolbeck@debian.org](mailto:rmgolbeck@debian.org)>

2003, Jeff Bailey <[jb Bailey@nisa.net](mailto:jb Bailey@nisa.net)>

2003, Clint Adams <[schizo@debian.org](mailto:schizo@debian.org)> Mon, 10 Mar 2003 02:10:32 -0500

2001 Robert van der Meulen <[rvdm@debian.org](mailto:rvdm@debian.org)>

1996-2000 Wichert Akkerman <[wakkerma@debian.org](mailto:wakkerma@debian.org)>

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## 1.195 okio 1.15.0

## 1.196 libxcrypt 4.4.10-10ubuntu4

### 1.196.1 Available under license :

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# 1.197 protobuf-parent 3.12.2

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Manifest-Version: 1.0  
Automatic-Module-Name: com.google.protobuf.util  
Bnd-LastModified: 1590600820442  
Build-Jdk: 1.8.0\_181-google-v7  
Built-By: haberman  
Bundle-Description: Utilities for Protocol Buffers  
Bundle-DocURL: <https://developers.google.com/protocol-buffers/>  
Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>  
Bundle-ManifestVersion: 2  
Bundle-Name: Protocol Buffers [Util]  
Bundle-SymbolicName: com.google.protobuf.util  
Bundle-Version: 3.12.2  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.google.protobuf.util;version="3.12.2";uses:="com.google.protobuf"  
Import-Package: com.google.common.base;version="[29.0,30)",com.google.common.io;version="[29.0,30)",com.google.common.math;version="[29.0,30)",com.google.common.primitives;version="[29.0,30)",com.google.gson;version="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobuf;version="[3.12,4)"  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-3.0.0.201509101326

Found in path(s):

\* /opt/cola/permits/1434645996\_1672857496.7161605/0/protobuf-java-util-3-12-2-jar/META-INF/MANIFEST.MF

# 1.198 pcre 10.34-7

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## THE BASIC LIBRARY FUNCTIONS

-----

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

University of Cambridge Computing Service,  
Cambridge, England.

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Written by: Zoltan Herczeg  
Email local part: hzmester  
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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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# 1.202 mawk 1.3.4.20200120 2

## 1.202.1 Available under license :

Upstream source <http://invisible-island.net/mawk/mawk.html>

Current maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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

Files: debian/\*

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# 1.204 google-cloud-go v0.81.0

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Jan Mercl <0xjnm1@gmail.com>
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## 1.207 benbjohnson-clock 1.1.0

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# 1.210 objenesis 2.1

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```
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Route.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http2/Hpack.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Response.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/MediaType.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-
jar/okhttp3/internal/connection/RouteDatabase.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Handshake.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-
jar/okhttp3/internal/http2/ErrorCode.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-
jar/okhttp3/internal/http/RequestLine.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Dispatcher.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-
jar/okhttp3/internal/cache/InternalCache.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Request.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-
jar/okhttp3/internal/NamedRunnable.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/StatusLine.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-
jar/okhttp3/internal/cache/CacheStrategy.java
*/opt/cola/permits/1131046724_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http2/Http2.java
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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-  
jar/okhttp3/internal/publicsuffix/PublicSuffixDatabase.java

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jar/okhttp3/internal/connection/RouteSelector.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/OkHttpClient.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Dns.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http2/Settings.java

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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/cache/CacheRequest.java

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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/platform/ConscryptPlatform.java

\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/TlsVersion.java  
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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/HttpMethod.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/RealResponseBody.java  
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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/MultipartBody.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/Version.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/RequestBody.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Protocol.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/Internal.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Credentials.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Interceptor.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/ws/WebSocketProtocol.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http2/PushObserver.java

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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/connection/RealConnection.java  
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jar/okhttp3/internal/platform/OptionalMethod.java  
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jar/okhttp3/internal/http2/Http2Stream.java

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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/WebSocketListener.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http2/StreamResetException.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/platform/AndroidPlatform.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/tls/TrustRootIndex.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/tls/BasicTrustRootIndex.java  
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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/RealInterceptorChain.java  
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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/Http1Codec.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/HttpCodec.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/Util.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http2/Http2Codec.java  
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# 1.214 yaml 1.2.0

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Current upstream maintainers:

Bill Fenner <[fenner@research.att.com](mailto:fenner@research.att.com)>  
Fulvio Risso <[risso@polito.it](mailto:risso@polito.it)>  
Guy Harris <[guy@alum.mit.edu](mailto:guy@alum.mit.edu)>  
Hannes Gredler <[hannes@juniper.net](mailto:hannes@juniper.net)>  
Jun-ichiro itojun Hagino <[itojun@ijlab.net](mailto:itojun@ijlab.net)>  
Michael Richardson <[mcr@sandelman.ottawa.on.ca](mailto:mcr@sandelman.ottawa.on.ca)>

Additional people who have contributed patches:

Alan Bawden <Alan@LCS.MIT.EDU>  
Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>  
Albert Chin <china@thewrittenword.com>  
Andrew Brown <atatat@atadot.net>  
Antti Kantee <pooka@netbsd.org>  
Arkadiusz Miskiewicz <misiek@pld.org.pl>  
Armando L. Caro Jr. <acaro@mail.eecis.udel.edu>  
Assar Westerlund <assar@sics.se>  
Brian Ginsbach <ginsbach@cray.com>  
Charles M. Hannum <mycroft@netbsd.org>  
Chris G. Demetriou <cgd@netbsd.org>  
Chris Pepper <pepper@mail.reppel.com>  
Darren Reed <darrenr@reed.wattle.id.au>  
David Kaelbling <drk@sgi.com>  
David Young <dyoung@ojctech.com>  
Don Ebright <Don.Ebright@compuware.com>  
Eric Anderson <anderse@hpl.hp.com>  
Franz Schaefer <schaefer@mond.at>  
Gianluca Varenni <varenni@netgroup-serv.polito.it>  
Gisle Vanem <giva@bgnett.no>  
Graeme Hewson <ghewson@cix.compulink.co.uk>  
Greg Stark <gsstark@mit.edu>  
Greg Troxel <gdt@ir.bbn.com>  
Guillaume Pelat <endymion\_@users.sourceforge.net>  
Hyung Sik Yoon <hsyn@kr.ibm.com>  
Igor Khristophorov <igor@atdot.org>  
Jan-Philip Velders <jpv@veldersjes.net>  
Jason R. Thorpe <thorpej@netbsd.org>  
Javier Achirica <achirica@ttd.net>  
Jean Tourrilhes <jt@hpl.hp.com>  
Jefferson Ogata <jogata@nodc.noaa.gov>  
Jesper Peterson <jesper@endace.com>  
John Bankier <jbankier@rainfinity.com>  
Jon Lindgren <jonl@yubyub.net>  
Juergen Schoenwaelder <schoenw@ibr.cs.tu-bs.de>  
Kazushi Sugyo <sugyo@pb.jp.nec.com>  
Klaus Klein <kleink@netbsd.org>  
Koryn Grant <koryn@endace.com>  
Krzysztof Halasa <khc@pm.waw.pl>  
Lorenzo Cavallaro <sullivan@sikurezza.org>  
Loris Degioanni <loris@netgroup-serv.polito.it>  
Love Hrnquist-strand <lha@stacken.kth.se>  
Maciej W. Rozycki <macro@ds2.pg.gda.pl>  
Marcus Felipe Pereira <marcus@task.com.br>  
Martin Husemann <martin@netbsd.org>  
Mike Wiacek <mike@iroot.net>  
Monroe Williams <monroe@pobox.com>

Octavian Cerna <tavy@ylabs.com>  
Olaf Kirch <okir@caldera.de>  
Onno van der Linden <onno@simplex.nl>  
Paul Mundt <lethal@linux-sh.org>  
Pavel Kankovsky <kan@dcit.cz>  
Peter Fales <peter@fales-lorenz.net>  
Peter Jeremy <peter.jeremy@alcatel.com.au>  
Phil Wood <cpw@lanl.gov>  
Rafal Maszkowski <rzm@icm.edu.pl>  
Rick Jones <raj@cup.hp.com>  
Scott Barron <sb125499@ohiou.edu>  
Scott Gifford <sgifford@tir.com>  
Sebastian Krahmer <krahmer@cs.uni-potsdam.de>  
Shaun Clowes <delius@progsoc.uts.edu.au>  
Solomon Peachy <pizza@shaftnet.org>  
Stefan Hudson <hudson@mbay.net>  
Takashi Yamamoto <yamt@mwd.biglobe.ne.jp>  
Tony Li <tli@procket.com>  
Torsten Landschoff <torsten@debian.org>  
Uns LIDER <unslider@miranda.org>  
Uwe Girlich <Uwe.Girlich@philosys.de>  
Xianjie Zhang <xzhang@cup.hp.com>  
Yen Yen Lim  
Yoann Vandoorselaere <yoann@prelude-ids.org>

The original LBL crew:

Steve McCanne  
Craig Leres  
Van Jacobson

# 1.216 npth 1.5-3

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

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

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

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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
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Mersenne Twister

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

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.keio.ac.jp/matumoto/emt.html>

email: [matumoto@math.keio.ac.jp](mailto:matumoto@math.keio.ac.jp)

## Sockets

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The ``socket'` module uses the functions, ``getaddrinfo'`, and ``getnameinfo'`, which are coded in separate source files from the WIDE Project, [`http://www.wide.ad.jp/about/index.html'](http://www.wide.ad.jp/about/index.html).

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

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

XML Remote Procedure Calls

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

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

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

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1.3 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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## 1.219 sed 4.7 1

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#
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/bdfplib.c
src/bdf/module.mk
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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/zip/adler32.c
src/zip/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
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--- end of FTL.TXT ---

# 1.231 e2fsprogs 1.45.5 2ubuntu1.1

## 1.231.1 Available under license :

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](mailto:tytso@mit.edu)> and Remy Card <[card@masi.ibp.fr](mailto:card@masi.ibp.fr)>.

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

```
all:: image
```

```
real-subdirs:: Makefile
```

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

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

```
BSDLIB_PIC_FLAG = -fpic
```

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

```
$(BSD_LIB): $(OBS)
```

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

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

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

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

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

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

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

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

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

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

```
install-strip: install
```

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

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

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

```
clean::
```

```
$(RM) -rf pic
```

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

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

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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Index: tdbsa/tdb.c

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

+++ tdbsa/tdb.c

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

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

\*/

/\*

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

- trivial database library - private includes

-

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Theodore Ts'o  
23-June-2007

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

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Gadi Oxman, August 1995

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-----  
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam\_motd/pam\_motd.c

```
-----  
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c  
+++ pam.ubuntu/modules/pam_motd/pam_motd.c  
@@ -73,6 +73,61 @@  
close(fd);  
}  
  
+int display_legal(pam_handle_t *pamh)  
+{
```

```

+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+     PAM_MODUTIL_DEF_PRIVS(privs);
+
+     /* Get the password entry */
+     pwd = pam_modutil_getpwnam (pamh, user);
+     if (pwd != NULL)
+     {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+             pam_syslog(pamh, LOG_ERR,
+                 "Unable to change UID to %d temporarily\n",
+                 pwd->pw_uid);
+             retval = PAM_SESSION_ERR;
+             goto finished;
+         }
+
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+             goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+             goto finished;
+
+         if (stat(flag, &s) != 0)
+         {
+             display_file(pamh, "/etc/legal");
+             mkdir(dir, 0700);
+             f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                 S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+             if (f>=0) close(f);
+         }
+
+     }
+
+finished:
+     if (pam_modutil_regain_priv(pamh, &privs)) {
+         pam_syslog(pamh, LOG_ERR,
+             "Unable to change UID back to %d\n", privs.old_uid);
+         retval = PAM_SESSION_ERR;
+     }
+
+     _pam_drop(flag);
+     _pam_drop(dir);

```

```

+   }
+ }
+ return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
    return retval;
}

```

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## 1.235 nettle 3.4-1

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Upstream-Name: Nettle

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

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

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.

AES

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

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## DES

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## MD2

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## MD4

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## SHA224, SHA256, SHA384, and SHA512

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

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

## RSA

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</appendix>

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```
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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```

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```
/* Use the Sequent Symmetry assembler syntax. */
```

```
/* Define the syntax of pseudo-ops, labels and comments. */
```

```
/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
```

```
#define LPREFIX "L"
```

```
/* Assembler pseudos to introduce constants of various size. */
```

```
#define ASM_BYTE "\t.byte\t"
```

```
#define ASM_SHORT "\t.word\t"
```

```
#define ASM_LONG "\t.long\t"
```

```
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
```

```
/* This was suggested, but it shouldn't be right for DBX output. -- RMS
```

```
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */
```

```

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \

```

```
printf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
```

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Version 2.1, February 1999

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies,



or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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## END OF TERMS AND CONDITIONS

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If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"

xml:id="appendix.gpl-3.0"><info><title>

<acronym>GNU</acronym> General Public License version 3

</title></info>

<?dbhtml filename="appendix\_gpl.html"?>

<para>

Version 3, 29 June 2007

</para>

<para>

Copyright 2007 Free Software Foundation, Inc.

<link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.fsf.org/">http://www.fsf.org/</link>

</para>

<para>

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</para>

<bridgehead xml:id="gpl-3-preamble" renderas="sect1">

Preamble

</bridgehead>

<para>

The <acronym>GNU</acronym> General Public License is a free, copyleft license for software and other kinds of works.

</para>

<para>

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the <acronym>GNU</acronym> General Public License is intended to guarantee your freedom to share and change all versions of a program to make sure it remains free software for all its users. We, the Free Software Foundation, use the <acronym>GNU</acronym> General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

</para>

<para>

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

</para>

<para>

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

</para>

<para>

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

</para>

<para>

Developers that use the <acronym>GNU</acronym> <acronym>GPL</acronym> protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

</para>

<para>

For the developers and authors protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users and authors sake, the <acronym>GPL</acronym> requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

</para>

<para>

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

</para>

<para>

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the <acronym>GPL</acronym> assures that patents cannot be used to render the program non-free.

</para>

<para>

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

</para>

<bridgehead>

## TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="gpl-3-definitions" renderas="sect1">

### 0. Definitions.

</bridgehead>

<para>

This License refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

Copyright also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

</para>

<para>

The Program refers to any copyrightable work licensed under this License. Each licensee is addressed as you.

Licensees and recipients may be individuals or organizations.

</para>

<para>

To modify a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a modified version of the earlier work or a work based on the earlier work.

</para>

<para>

A covered work means either the unmodified Program or a work based on the Program.

</para>

<para>

To propagate a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

</para>

<para>

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

</para>

<para>

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

visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

</para>

<bridgehead xml:id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the works System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead xml:id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

</para>

<para>

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

</para>

<para>

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

</para>

<bridgehead xml:id="Protecting" renderas="sect1">

3. Protecting Users Legal Rights From Anti-Circumvention Law.

</bridgehead>

<para>

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered



work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the works users, your or third parties legal rights to forbid circumvention of technological measures.

</para>

<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Programs source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

</para>

<para>

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

</para>

<bridgehead xml:id="ConveyingModified" renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

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

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore

apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

</para>

</listitem>

<listitem>

<para>

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

</para>

</listitem>

</orderedlist>

<para>

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an aggregate if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

</para>

<bridgehead xml:id="ConveyingNonSource" renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts

or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

</orderedlist>

<para>

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

</para>

<para>

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</screen>

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`</para>`

`</appendix>`

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```
winsup\cygserver\sysv_shm.cc
```

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Version 3.1, 31 March 2009

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

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@c Local Variables:

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

@c End:

.\" Automatically generated by Pod::Man 2.27 (Pod::Simple 3.28)

.\"

.\" Standard preamble:

.\" =====

.de Sp \" Vertical space (when we can't use .PP)

.if t .sp .5v

.if n .sp

..

.de Vb \" Begin verbatim text

.ft CW

.nf

.ne \\\$1

..

.de Ve \" End verbatim text

.ft R

.fi

..

.\" Set up some character translations and predefined strings. \\*(-- will

.\" give an unbreakable dash, \\*(PI will give pi, \\*(L" will give a left

.\" double quote, and \\*(R" will give a right double quote. \\*(C+ will



```

.\}
.rF rF
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
. \" fudge factors for nroff and troff
.if n {\
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t {\
. ds #H ((1u-(\\n(.fu%2u))* .13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n {\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t {\
. ds ' \k:h'-(\n(.wu*8/10-*(#H)^\`h''\n:u"
. ds ` \k:h'-(\n(.wu*8/10-*(#H)^\`h''\n:u'
. ds ^ \k:h'-(\n(.wu*10/11-*(#H)^\`h''\n:u'
. ds , \k:h'-(\n(.wu*8/10)',h''\n:u'
. ds ~ \k:h'-(\n(.wu-*(#H-.1m)~\h''\n:u'
. ds / \k:h'-(\n(.wu*8/10-*(#H)^\z(\sl'h''\n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \k:h'-(\n(.wu*8/10-*(#H+.1m+*(#F)\v'-(#V)\z.h'.2m+*(#F'.h''\n:u\v'*(#V'
.ds 8 \h''*(#H)\(*b'h'-(#H'
.ds o \k:h'-(\n(.wu+\w'(de'u-*(#H)/2u\v'.3n''*(#[z(de\v'.3n'h''\n:u''*(#)
.ds d- \h''*(#H)\(pd'h'-\w'~'u\v'-.25m'\f2(hy)\fP\v'.25m'h'-(#H'
.ds D- D\k:h'-(\w'D'u\v'.11m'\z(hy)\v'.11m'h''\n:u'
.ds th \*(#[v'.3m\s+1I\s-1\v'-.3m'h'-(\w'Tu*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[s+2I\s-2h'-\w'Tu*3/5\v'-.3m'o\v'.3m''*(#)
.ds ae a\h'-(\w'a'u*4/10)'e
.ds Ae A\h'-(\w'A'u*4/10)'E
. \" corrections for vroff

```

```

.if v.ds ~ \k:\h'-(\n(.wu*9/10-\*(#H)\s-2\u~\d\s+2\h'\n:u'
.if v.ds ^ \k:\h'-(\n(.wu*10/11-\*(#H)\v'-.4m^\v'.4m\h'\n:u'
.  \ " for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{
.  ds : e
.  ds 8 ss
.  ds o a
.  ds d- d\h'-1'\(ga
.  ds D- D\h'-1'\(hy
.  ds th \o'bp'
.  ds Th \o'LP'
.  ds ae ae
.  ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2018-12-06" "gcc-7.4.0" "GNU"
.\ " For nroff, turn off justification.  Always turn off hyphenation; it makes
.\ " way too many mistakes in technical documents.
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.IX Subsection "TERMS AND CONDITIONS"

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.IP "1. Source Code." 4

.IX Item "1. Source Code."

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.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

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.RS 4

.IP "a." 4

.IX Item "a."

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.IP "b." 4

.IX Item "b."

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.IP "c." 4

.IX Item "c."

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.IP "d." 4

.IX Item "d."

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.RS 4

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.RS 4

.IP "a." 4

.IX Item "a."

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.IP "b." 4

.IX Item "b."

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.IP "c." 4

.IX Item "c."

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

.IP "d." 4

.IX Item "d."

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.IP "e." 4

.IX Item "e."

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.RS 4

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.SS "\s-1END OF TERMS AND CONDITIONS\s0"

.IX Subsection "END OF TERMS AND CONDITIONS"

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.Vb 2

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`\& Copyright (C) <year> <name of author>`

`\&`

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.PP

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.PP

.Vb 4

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.Ve

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```

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Version 2, June 1991

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

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

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

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

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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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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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at Electronni Visti IA, Kiev, Ukraine.  
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```
#!/usr/bin/python
```

```
#
```

```
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
```

```
#
```

```
# This script is free software; you can redistribute it and/or modify  
# it under the terms of the GNU General Public License as published by  
# the Free Software Foundation; either version 3, or (at your option)  
# any later version.
```

```
# This script adjusts the copyright notices at the top of source files  
# so that they have the form:
```

```
#
```

```
# Copyright XXXX-YYYY Free Software Foundation, Inc.
```

```
#
```

```
# It doesn't change code that is known to be maintained elsewhere or  
# that carries a non-FSF copyright.
```

```
#
```

```
# The script also doesn't change testsuite files, except those in  
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,  
# while most tests in other directories are just things that failed at some  
# point in the past.
```



```
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
```

```
import os
import re
import sys
import time
import subprocess
```

```
class Errors:
```

```
    def __init__(self):
        self.num_errors = 0
```

```
    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
            sys.stderr.write(string + '\n')
            self.num_errors += 1
```

```
    def ok(self):
        return self.num_errors == 0
```

```
class GenericFilter:
```

```
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()
```

```

self.skip_files |= set ([
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltsugar.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

```

```

return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

```

```

# Characters in a range of years. Include '.' for typos.
ranges = '[0-9](?:[-0-9.,\s])\s+and\s+[0-9]'

# Non-whitespace characters in a copyright holder's name.
name = '[\w.-]'

# Matches one year.
self.year_re = re.compile('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (
    # 1: 'Copyright (C)', etc.
    '([Cc]opyright'
    '|[Cc]opyright\s+\([Cc]\)'
    '|[Cc]opyright\s+%s'
    '|[Cc]opyright\s+&copy;'
    '|[Cc]opyright\s+@copyright{ }'
    '|copyright = u\"
    '|@set\s+copyright[\w-]+)'

    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '\s*(?:' + ranges + ',?'
    '@value\{[^\{]*\})\s*')

    # 3: 'by ', if used
    '(by\s+)?'

    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(' + name + '(?:\s? + name + ')*?)')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                       re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+;+|%+//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

```

```

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):

```

```

# Leave texinfo variables alone.
if years.startswith('@value'):
    return years

(min_year, max_year) = self.year_range (years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file (dir, filename):
    max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != "":
            self.errors.report (pathname,
                                'trailing characters in @set: '
                                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()

```

```

except StopIteration:
    break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
           + canon_form
           + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

```

```

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
        + (' if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += '(C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)

```



```

        if match:
            res = self.update_copyright (dir, filename, filter,
                                        file, line, match)
            (this_changed, line, next_line) = res
            changed = changed or this_changed

        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname,
                               'unrecognised copyright: %s'
                               % line.strip())
        lines.append (line)
        line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
        os.fchmod (file.fileno(), mode)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s\n'
                                 % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()

```

```

self.option_help = []

self.add_option('--help', 'Print this help', self.o_help)
self.add_option('--quilt', '"quilt add" files before changing them',
                self.o_quilt)
self.add_option('--this-year', 'Add the current year to every notice',
                self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
                     'Options:\n' % sys.argv[0])
    format = '%-15s %s\n'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ("\nDirectories:\n")

    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():

```

```

if len (self.chosen_dirs) == 0:
    self.chosen_dirs = self.default_dirs
if len (self.chosen_dirs) == 0:
    self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, ")
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: '
                                + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

```

#-----

```

class TopLevelFilter (GenericFilter):

```

```

    def skip_dir (self, dir, subdir):
        return True

```

```

class ConfigFilter (GenericFilter):

```

```

    def __init__ (self):
        GenericFilter.__init__ (self)

```

```

    def skip_file (self, dir, filename):

```

```

        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

```

```

class GCCFilter (GenericFilter):

```

```

    def __init__ (self):
        GenericFilter.__init__ (self)

```

```

    self.skip_files |= set ([
        # Not part of GCC
        'math-68881.h',
    ])

```

```

    self.skip_dirs |= set ([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',
    ])

```

```

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set ([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set ([
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woened by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):

```

```

GenericFilter.__init__(self)

self.skip_extensions |= set ([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \\\(C\\\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

```

```

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('NVIDIA Corporation')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors.')
        self.add_external_author ('The Regents of the University of California.')
        self.add_external_author ('Unicode, Inc.')
        self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

```

```
self.add_dir('.', TopLevelFilter())
# Boehm-GC is imported from upstream.
self.add_dir('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnattools')
self.add_dir('gotools')
self.add_dir('include')
# intl is imported from upstream.
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcc1')
# libcilkrts is imported from upstream.
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.
```

```
self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
```

```
'libgomp',  
'libhsail-rt',  
'libiberty',  
'libitm',  
'libobjc',  
'libssp',  
'libstdc++-v3',  
'libvtv',  
'lto-plugin',  
]
```

GCCCmdLine().main()

## 1.248 cast 1.3.1

### 1.248.1 Available under license :

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## 1.249 netcat-openbsd 1.206 1ubuntu1

### 1.249.1 Available under license :

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

Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

Files: netcat.c

Copyright: 2001 Eric Jackson <[ericj@monkey.org](mailto:ericj@monkey.org)>



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Files: nc.1

Copyright: 1996 David Sacerdote

License: BSD-3-Clause

Files: atomicio.\*

Copyright: 2006 Damien Miller

2005 Anil Madhavapeddy

1995,1999 Theo de Raadt

License: BSD-2-Clause

Files: socks.c

Copyright: 1999 Niklas Hallqvist

2004, 2005 Damien Miller

License: BSD-2-Clause

Files: Makefile

Copyright: The OpenBSD project

License: BSD-3-Clause

Files: debian/\*

Copyright: 2008, 2009, 2010 Decklin Foster <decklin@red-bean.com>

2008, 2009, 2010 Soren Hansen <soren@ubuntu.com>

2012 Aron Xu <aron@debian.org>

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## 1.250 prometheus-procfs 0.5.0

### 1.250.1 Available under license :

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

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# 1.251 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.4

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Version 1.1 - April 19,1999

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\*/

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## 1.252 go-ole 1.2.5

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Found in path(s):

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\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-

gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_no\_generic\_services.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_optimize\_for.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_import\_public.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/nested\_extension.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_custom\_options.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ServiceTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/com/google/protobuf/non\_nested\_extension\_lite.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_lite\_imports\_nonlite.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_import\_public.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DescriptorsTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_mset.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/UnmodifiableLazyStringListTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_embed\_optimize\_for.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/CodedInputStreamTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ForceFieldBuildersPreRun.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/NestedBuildersTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/CodedOutputStreamTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LiteralByteStringTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/multiple\_files\_test.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_empty.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DynamicMessageTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LazyStringArrayListTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_import.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_enormous\_descriptor.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-

```
gz/v2.5.0/protos/src/proto/com/google/protobuf/nested_builders_test.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TestBadIdentifiers.java
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/com/google/protobuf/test_bad_identifiers.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/com/google/protobuf/nested_extension.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ParserTest.java
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/google/protobuf/unittest_import_lite.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/RopeByteStringSubstringTest.java
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_optimize_for.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TextFormatTest.java
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/google/protobuf/unittest_custom_options.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/more_protos/src/proto/com/google/protobuf/non_nested_extension.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/google/protobuf/unittest.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_import_lite.proto
```

# 1.254 x-time-rate 0.0.0-20200416051211-89c76fbcd5d1

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## 1.255 systemd 237

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```
* /opt/cola/permits/1518099296_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/NioByteString.java  
* /opt/cola/permits/1518099296_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/Utf8.java  
* /opt/cola/permits/1518099296_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-
```

jar/com/google/protobuf/ListFieldSchema.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/BooleanArrayList.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/InvalidProtocolBufferException.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/AbstractParser.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/MapFieldSchemas.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/LongArrayList.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/Schema.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/google/protobuf/source\_context.proto  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/ProtobufArrayList.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/google/protobuf/any.proto  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/CodedOutputStream.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/NewInstanceSchemaLite.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/MutabilityOracle.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/MessageLiteOrBuilder.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/MapFieldSchemaLite.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/AllocatedBuffer.java  
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jar/com/google/protobuf/Internal.java

## 1.257 golang-snappy 0.0.1

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```
Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnm@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcarvalho@gmail.com>
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# 1.258 mpclib 1.1.0 1

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## 1.261 mitchellh-mapstructure 1.4.1

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This package was debianized by Ivo Timmermans <ivo@debian.org> on Fri, 3 Aug 2001 10:00:42 +0200.

It was later taken over by Matthias Urlichs <smurf@debian.org> and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>

It was downloaded from <ftp://ftp.gnutls.org/gcrypt/gnutls/>

Upstream Authors:

Simon Josefsson \*simon [at] josefsson.org\*

Current maintainer; draft TLS 1.2 support.

Nikos Mavrogiannopoulos \*nmav [at] gnutls.org\*

Original author and maintainer of GnuTLS.

Fabio Fiorina \*Fabio.Fiorina [at] alcatel.it\*

ASN.1 structures parser library (libtasn1).

Timo Schulz \*twoaday [at] freakmail.de\*

OpenPGP support (OpenCDK library).

Andrew McDonald \*andrew [at] mcdonald.org.uk\*

OpenSSL compatible interface.

Ludovic Courtes \*ludo [at] gnu.org\*

Guile bindings, OpenPGP bug fixes.

Mario Lenz \*m [at] riolenz.de\*

Fixes to OpenCDK.

Howard Chu \*hyc [at] symas.com\*

APIs to extract X.500 DN's from Certificates.

Ivo Timmermans \*ivo [at] o2w.nl\*

Man pages, OpenCDK, fixes.

Stefan Walter \*stef [at] memberwebs.com\*

PKCS8 fix, PKCS #11 backend move to p11-kit.

Yoshisato YANAGISAWA \*yanagisawa [at] csg.is.titech.ac.jp\*

Camellia support.

Emile Van Bergen \*emile [at] e-advies.nl\*

TLS/IA fixes.

Joe Orton \*jorton [at] redhat.com\*

Certificate name import/export, build fixes, test vectors.

Daniel Kahn Gillmor \*dkg-debian.org [at] fifthhorseman.net\*

OpenPGP discussion and improvements.

David Marn Carreo \*davefx [at] gmail.com\*

Added gnutls\_x509\_crq\_get\_key\_id.

Daiki Ueno \*ueno [at] unixuser.org\*

Added TLS Session Ticket (RFC 5077) support,

finished client-side TLS 1.2 support.

Brad Hards \*bradh [at] frogmouth.net\*  
Add X.509 Issuer Alternative Name functions.

Boyan Kasarov \*bkasarov [at] gmail.com\*  
C++ fixes.

Steve Dispensa \*dispensa [at] phonefactor.com\*  
Initial TLS safe renegotiation patch.

Jonathan Bastien-Filiatrault \*joe [at] x2a.org\*  
Fix TLS-version checks.  
Redesign and implementation of the buffering layer.  
Initial DTLS implementation.

Ruslan Ijbulatov (LRN) \*lrn1986 [at] gmail.com\*  
Win32 patches.

Andy Polyakov \*appro [at] openssl.org\*  
AES-NI and Padlock assembler code (at lib/accelerated/intel/asm/)

David Woodhouse \*dwmw2 [at] infradead.org\*  
DTLS 0.9 implementation.

Olga Smolenchuk \*olyasib12 [at] gmail.com\*  
DTLS/TLS heartbeat implementation.

Ilya Tumaykin \*itumaykin [at] gmail.com\*  
Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo \*martin [at] martin.st\*  
DTLS-SRTP support.

Alessandro Ghedini \*alessandro [at] ghedini.me\*  
TLS Fallback SCSV support (RFC7507).

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lib/accelerated/x86/elf/aes-ssse3-x86.s  
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Upstream Authors: David Woodhouse <dwmw2@infradead.org>  
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Comment: This code is not used on Debian/\*, since we have a working vasprintf() in glibc.

lib/extras/hex.\*

Author: Rusty Russell <rusty@rustcorp.com.au>

Comment: <http://ccodearchive.net/info/str/hex.html>

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tests/pkcs11/pkcs11-mock.\*

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lib/unistring.\*

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Comment: Debian package is built against libunistring-dev package.

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# 1.269 xml-commons-resolver 1.2

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```
/* CMU libsasl
 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */
/*
```

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/\* CMU libsacl

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\*/

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README for release 6b of 27-Mar-1998

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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.

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## DOCUMENTATION ROADMAP

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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 wjjpgcom.  
\*.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.

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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.

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## 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/](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

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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

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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).

# 1.272 python 2.7.15~rc1-1

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from [ftp.python.org/pub/python](http://ftp.python.org/pub/python), based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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

Footnotes:

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

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,

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

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

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dh\_python2, pycompile, pyclean and debpython module:

=====  
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## 1.274 glibc 2.27-3ubuntu1.6

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Files:

include/bsd/err.h  
include/bsd/stdlib.h  
include/bsd/unistd.h  
src/bsd\_getopt.c  
src/err.c  
src/fgetln.c  
src/progname.c

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include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd

man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
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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src/strmode.c  
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include/bsd/stringlist.h  
man/fmtcheck.3bsd  
man/humanize\_number.3bsd  
man/stringlist.3bsd  
man/timeval.3bsd  
src/fmtcheck.c  
src/humanize\_number.c  
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man/byteorder.3bsd  
man/closefrom.3bsd  
man/expand\_number.3bsd  
man/flopen.3bsd  
man/getpeereid.3bsd  
man/pidfile.3bsd  
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src/fparsefn.c

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man/readpassphrase.3bsd  
man/strncpy.3bsd  
man/strtonum.3bsd  
src/arc4random.c  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.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

src/readpassphrase.c

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src/strncpy.c

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src/hash/md5.c

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The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

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```

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```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR): %.${SO}.${SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

```

```
%. $(SO): %. $(SO). $(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO). $(SO_TARGET_VERSION) $@
```

```
## Bind internal references
```

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
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# 1.282 go-toml 1.9.3

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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## 1.283 go-test-deep 1.0.7

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# 1.284 curl 7.58.0 2ubuntu3.16

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#####

## Constant-time SSSE3 AES core implementation.

## version 0.1

##

## By Mike Hamburg (Stanford University), 2009

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##

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#####

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

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```

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```
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```

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Found in path(s):

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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\*/

/\*  
\* \$Id: Version.src 468654 2006-10-28 07:09:23Z minchau \$  
\*/

package org.apache.xml.serializer;

/\*\*  
\* Administrative class to keep track of the version number of  
\* the Serializer release.  
\* <P>This class implements the upcoming standard of having  
\* org.apache.project-name.Version.getVersion() be a standard way  
\* to get version information.</P>

```

* @xsl.usage general
*/
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+". "+getReleaseVersionNum()+". "
        +(getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (" "+getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

```

```
/**
 * Major version number.
 * Version number. This changes only when there is a
 *   significant, externally apparent enhancement from
 *   the previous release. 'n' represents the n'th
 *   version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
```

```
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

```
/**
 * Release Number.
 * Release number. This changes when:
 *   - a new set of functionality is to be added, eg,
 *     implementation of a new W3C specification.
 *   - API or behaviour change.
 *   - its designated as a reference release.
 */
```

```
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

```
/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
```

```
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
```

```
/**
 * Development Drop Number.
 * Optional identifier designates development drop of
```



```
* a specific release. D01 is the first development drop
* of a new release.
*
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
*
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
```

```
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}
```

Found in path(s):

```
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/Version.src
```

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*/
```

```

/*
 * $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 *
 */

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
    }

/**
 * If symbol is not followed by ':' or '(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :(
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }
}

```

```

}

// Return symbol if next token is ':' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
        yy_buffer[index] == '(') ?
        newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1: // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {

```

```

switch (last) {
case -1: // first token
case sym.ATSIGN:
case sym.DCOLON:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%}

```

```
%eofval{
return newSymbol(sym.EOF);
%eofval}
```

```
%yylexthrow{
Exception
%yylexthrow}
```

```
Letter={BaseChar}|{Ideographic}
```

```
BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u1113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-
\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-
\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-
\u30FA\u3105-\u312C\uAC00-\uD7A3]
```

```
Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]
```

```
CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-
\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-
\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-
\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-
\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-
\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-
\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-
```



```

"text()"          { return newSymbol(sym.TEXT); }
"text"+[\t\r\n\f]+"()" { return newSymbol(sym.TEXT); }
"node()"         { return newSymbol(sym.NODE); }
"node"+[\t\r\n\f]+"()" { return newSymbol(sym.NODE); }
"comment()"      { return newSymbol(sym.COMMENT); }
"comment"+[\t\r\n\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()"      { return newSymbol(sym.PI); }
"processing-instruction"+[\t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"              { return disambiguateOperator(sym.OR); }
"and"            { return disambiguateOperator(sym.AND); }
"child"         { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"     { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"      { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"    { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"     { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"     { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"        { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"     { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"         { return disambiguateAxisOrFunction(sym.SELF); }
"["           { return newSymbol(sym.LBRACK); }
"]"          { return newSymbol(sym.RBRACK); }
"("         { return newSymbol(sym.LPAREN); }
")"        { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"    { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
\"[^\']*\"    { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
{Digit}+     { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+  { return newSymbol(sym.REAL, new Double(yytext())); }
"."         { return newSymbol(sym.DOT); }
({NCName}":")?{NCName} { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?""*     { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?""@*"   { return newSymbol(sym.QNAME, yytext()); }
[\t\r\n\f]      { /* ignore white space. */ }
.               { throw new Exception(yytext()); }

```

Found in path(s):

```

* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex

```

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```
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_html.properties
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/Encodings.properties
```

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* limitations under the License.
*/
/**
* Major version number.
```



\* Version number. This changes only when there is a  
\* significant, externally apparent enhancement from  
\* the previous release. 'n' represents the n'th  
\* version.  
\*  
\* Clients should carefully consider the implications  
\* of new versions as external interfaces and behaviour  
\* may have changed.  
\*/

Found in path(s):

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java

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\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-

jar/org/apache/xpath/compiler/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html

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\*/

/\*\*

\* This is a special exception that is used to stop parsing when  
\* search for an element. For instance, when searching for xml:stylesheet  
\* PIs, it is used to stop the parse once the document element is found.  
\* @see StylesheetPIHandler  
\* @xsl.usage internal  
\*/

Found in path(s):

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/StopParseException.java

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// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/ToHTMLStream.java

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Found in path(s):

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java  
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\*/

/\*\*

\* Execute the proprietary document-location() function, which returns  
\* a node set of documents.  
\* @xsl.usage advanced  
\*/

Found in path(s):

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java  
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```

*/

/*
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {
    /**
     * Used by function calls with no args.
     */
    static public final Vector EmptyArgs = new Vector(0);

    /**
     * Reference to non-existing variable.
     */
    static public final VariableRef DummyVarRef = null;

    /**
     * Reference to the Parser class.
     */
    private Parser _parser;
    private XSLTC _xsltc;

    /**
     * String representation of the expression being parsed.
     */
    private String _expression;

```

```

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xslt = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xslt.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xslt.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xslt.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:" and "{uri}:@" patterns. The last two
 * patterns are expanded as "[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this

```

```

* expansion to be correct, the priority of the pattern/template must be
* set to -0.25 (when no other predicates are present).
*/
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) { // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
}
else if (test instanceof Integer) {
nodeType = ((Integer) test).intValue();

return new StepPattern(axis, nodeType, predicates);
}
else {
QName name = (QName)test;
boolean setPriority = false;

if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
: _xsltc.registerNamespacePrefix(name);
}
else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
_parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("") || local.equals("@*"))) {
if (predicates == null) {
predicates = new Vector(2);
}

// Priority is set by hand if no other predicates exist
setPriority = (predicates.size() == 0);

predicates.add(
new Predicate(
new EqualityExpr(Operators.EQ,
new NamespaceUriCall(namespace_uri),
new LiteralExpr(uri)));
}

if (local.equals("")) {

```

```

        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
    }
    else if (local.equals("@*")) {
        nodeType = NodeTest.ATTRIBUTE;
    }
    else {
        nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
    }
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
result.setPriority(-0.25);
}

return result;
}
}

public int findNodeType(int axis, Object test) {
if (test == null) { // *
    return (axis == Axis.ATTRIBUTE) ?
NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
}
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
return (name.toString().equals("*")) ? -1
: _xsltc.registerNamespacePrefix(name);
        }

        if (name.getNamespace() == null) {
final String local = name.getLocalPart();

if (local.equals("*")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
        else if (local.equals("@*")) {

```



```

        return NodeTest.ATTRIBUTE;
    }
}

return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
}
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}
}

```

```

    public final void addError(ErrorMsg error) {
        _parser.reportError(Constants.ERROR, error);
    }

    public void report_error(String message, Object info) {
        final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
            _expression);
        _parser.reportError(Constants.FATAL, err);
    }

    public void report_fatal_error(String message, Object info) {
        // empty
    }

    public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
        if (rlp instanceof Step) {
            return new ParentLocationPath(step, (Step) rlp);
        }
        else if (rlp instanceof ParentLocationPath) {
            final ParentLocationPath plp = (ParentLocationPath) rlp;
            final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
            return new ParentLocationPath(newrlp, plp.getStep());
        }
        else {
            addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
            return rlp;
        }
    }

    /**
     * Returns true if the axis applies to elements only. The axes
     * child, attribute, namespace, descendant result in non-empty
     * nodesets only if the context node is of type element.
     */
    public boolean isElementAxis(int axis) {
        return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
    }
    :}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;

```

terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;  
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;  
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;  
terminal Double REAL;  
terminal Long INT;  
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;  
non terminal Expression Predicate, FilterExpr, Step;  
non terminal Expression OrExpr, AndExpr, EqualityExpr;  
non terminal Expression RelationalExpr, AdditiveExpr;  
non terminal Expression MultiplicativeExpr, UnaryExpr;  
non terminal Expression VariableReference, FunctionCall;  
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;  
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;  
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;  
non terminal Pattern Pattern;  
non terminal Pattern LocationPathPattern;  
non terminal StepPattern ProcessingInstructionPattern;  
non terminal RelativePathPattern RelativePathPattern;  
non terminal StepPattern StepPattern;  
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;  
non terminal QName QName, FunctionName, VariableName;  
non terminal Integer AxisName, AxisSpecifier;  
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;  
precedence left OR;  
precedence left AND;  
precedence nonassoc EQ, NE;  
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;  
precedence left DIV, MOD, MULT;  
precedence left DOLLAR;  
precedence left ATSIGN;  
precedence right DCOLON;

start with TopLevel;

```

TopLevel ::= PATTERN Pattern:pattern
    { : RESULT = pattern; : }

    | EXPRESSION Expr:expr
    { : RESULT = expr; : };

/* ----- Patterns ----- */

Pattern ::= LocationPathPattern:lpp
    { : RESULT = lpp; : }

    | LocationPathPattern:lpp VBAR Pattern:p
    { : RESULT = new AlternativePattern(lpp, p); : };

LocationPathPattern ::= SLASH
    { : RESULT = new AbsolutePathPattern(null); : }

    | SLASH RelativePathPattern:rpp
    { : RESULT = new AbsolutePathPattern(rpp); : }

    | IdKeyPattern:ikp
    { : RESULT = ikp; : }

    | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
    { : RESULT = new ParentPattern(ikp, rpp); : }

    | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(ikp, rpp); : }

    | DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(rpp); : }

    | RelativePathPattern:rpp
    { : RESULT = rpp; : };

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    { : RESULT = new IdPattern(l);
      parser.setHasIdCall(true);
      : }

    | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
    { : RESULT = new KeyPattern(l1, l2); : };

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
    { : RESULT = new ProcessingInstructionPattern(l); : };

RelativePathPattern ::= StepPattern:sp
    { : RESULT = sp; : }

```

```
| StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}
```

```
| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};
```

```
StepPattern ::= NodeTestPattern:nt
```

```
{:
RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
:}
```

```
| NodeTestPattern:nt Predicates:pp
```

```
{:
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
:}
```

```
| ProcessingInstructionPattern:pip
```

```
{: RESULT = pip; :}
```

```
| ProcessingInstructionPattern:pip Predicates:pp
```

```
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}
```

```
| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
```

```
{:
RESULT = parser.createStepPattern(axis.intValue(), nt, null);
:}
```

```
| ChildOrAttributeAxisSpecifier:axis
```

```
NodeTestPattern:nt Predicates:pp
```

```
{:
RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
:}
```

```
| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
```

```
{:
RESULT = pip; // TODO: report error if axis is attribute
:}
```

```
| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
```

```
Predicates:pp
```

```
{:
// TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
:};
```

```
NodeTestPattern ::= NameTestPattern:nt
```

```
{: RESULT = nt; :}
```

```

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PI
{: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
{: RESULT = null; :}

| QName:qn
{: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}

| ATTRIBUTE DCOLON
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
{:
Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
:}

| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{:
RESULT = new Predicate(e);
:};

/* ----- Expressions ----- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

```

```

OrExpr ::= AndExpr:ae
        { : RESULT = ae; : }

        | OrExpr:oe OR AndExpr:ae
        { : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : };

AndExpr ::= EqualityExpr:e
        { : RESULT = e; : }

        | AndExpr:ae AND EqualityExpr:ee
        { : RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); : };

EqualityExpr ::= RelationalExpr:re
        { : RESULT = re; : }

        | EqualityExpr:ee EQ RelationalExpr:re
        { : RESULT = new EqualityExpr(Operators.EQ, ee, re); : }

        | EqualityExpr:ee NE RelationalExpr:re
        { : RESULT = new EqualityExpr(Operators.NE, ee, re); : };

RelationalExpr ::= AdditiveExpr:ae
        { : RESULT = ae; : }

        | RelationalExpr:re LT AdditiveExpr:ae
        { : RESULT = new RelationalExpr(Operators.LT, re, ae); : }

        | RelationalExpr:re GT AdditiveExpr:ae
        { : RESULT = new RelationalExpr(Operators.GT, re, ae); : }

        | RelationalExpr:re LE AdditiveExpr:ae
        { : RESULT = new RelationalExpr(Operators.LE, re, ae); : }

        | RelationalExpr:re GE AdditiveExpr:ae
        { : RESULT = new RelationalExpr(Operators.GE, re, ae); : };

AdditiveExpr ::= MultiplicativeExpr:me
        { : RESULT = me; : }

        | AdditiveExpr:ae PLUS MultiplicativeExpr:me
        { : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); : }

        | AdditiveExpr:ae MINUS MultiplicativeExpr:me
        { : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); : };

MultiplicativeExpr ::= UnaryExpr:ue
        { : RESULT = ue; : }

```

```
| MultiplicativeExpr:me MULT UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}
```

```
| MultiplicativeExpr:me DIV UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}
```

```
| MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};
```

```
UnaryExpr ::= UnionExpr:ue
{: RESULT = ue; :}
```

```
| MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};
```

```
UnionExpr ::= PathExpr:pe
{: RESULT = pe; :}
```

```
| PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};
```

```
PathExpr ::= LocationPath:lp
{: RESULT = lp; :}
```

```
| FilterExpr:fexp
{: RESULT = fexp; :}
```

```
| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}
```

```
| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{:
  //
  // Expand '/' into '/descendant-or-self::node()' or
  // into '/descendant-or-self::*'
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  FilterParentPath fpp = new FilterParentPath(fexp, step);
  fpp = new FilterParentPath(fpp, rlp);
  if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
  }
}
```



```

    RESULT = fpp;
};

LocationPath ::= RelativeLocationPath:rlp
    { : RESULT = rlp; : }

    | AbsoluteLocationPath:alp
    { : RESULT = alp; : };

RelativeLocationPath ::= Step:step
    { : RESULT = step; : }

    | RelativeLocationPath:rlp SLASH Step:step
    { :
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
        RESULT = step;    // Remove './' from the middle
    }
    else if (((Step) step).isAbbreviatedDot()) {
        RESULT = rlp;    // Remove './' from the end
    }
    else {
        RESULT =
            new ParentLocationPath((RelativeLocationPath) rlp, step);
    }
    : }

    | AbbreviatedRelativeLocationPath:arlp
    { : RESULT = arlp; : };

AbsoluteLocationPath ::= SLASH
    { : RESULT = new AbsoluteLocationPath(); : }

    | SLASH RelativeLocationPath:rlp
    { : RESULT = new AbsoluteLocationPath(rlp); : }

    | AbbreviatedAbsoluteLocationPath:aalp
    { : RESULT = aalp; : };

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
    { :
    final Step right = (Step)step;
    final int axis = right.getAxis();
    final int type = right.getNodeType();
    final Vector predicates = right.getPredicates();

    if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
        // Compress './child:E' into 'descendant::E' - if possible
        if (predicates == null) {

```

```

    right.setAxis(Axis.DESCEMANT);
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
RESULT = right;
    }
    else {
        // Expand 'rlp//child::E' into 'rlp/descendant::E'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
RESULT = new ParentLocationPath(left, right);
    }
}
else {
    // Expand './step' -> 'descendant-or-self::*step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCEMANTORSELF,
DTM.ELEMENT_NODE, null);
RESULT = new ParentLocationPath(left, right);
    }
    else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCEMANTORSELF,
DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
RESULT = new ParentLocationPath(left, ppl);
    }
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCEMANTORSELF,
DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCEMANTORSELF,
DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
RESULT = new ParentLocationPath(left, ppl);
}
};

```

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp

{:

```

//
// Expand '/' into '/descendant-or-self::node()' or
// into '/descendant-or-self::*'
//
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT = new AbsoluteLocationPath(parser.insertStep(step,
(RelativeLocationPath) rlp));
:};

```

Step ::= NodeTest:ntest

```

{:
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    }
    else {
RESULT = new Step(Axis.CHILD,
    parser.findNodeType(Axis.CHILD, ntest),
    null);
    }
:}

```

| NodeTest:ntest Predicates:pp

```

{:
    if (ntest instanceof Step) {
        Step step = (Step)ntest;
        step.addPredicates(pp);
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest), pp);
    }
:}

```

| AxisSpecifier:axis NodeTest:ntest Predicates:pp

```

{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    pp);
:}

```

| AxisSpecifier:axis NodeTest:ntest

```

{: RESULT = new Step(axis.intValue(),

```

```
        parser.findNodeType(axis.intValue(), ntest),
        null);
    :}
```

```
| AbbreviatedStep:abbrev
{: RESULT = abbrev; :};
```

```
AxisSpecifier ::= AxisName:an DCOLON
{: RESULT = an; :}
```

```
| ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :};
```

```
AxisName ::= ANCESTOR
{: RESULT = new Integer(Axis.ANCESTOR); :}
```

```
| ANCESTORORSELF
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}
```

```
| ATTRIBUTE
{: RESULT = new Integer(Axis.ATTRIBUTE); :}
```

```
| CHILD
{: RESULT = new Integer(Axis.CHILD); :}
```

```
| DESCENDANT
{: RESULT = new Integer(Axis.DECENDANT); :}
```

```
| DESCENDANTORSELF
{: RESULT = new Integer(Axis.DECENDANTORSELF); :}
```

```
| FOLLOWING
{: RESULT = new Integer(Axis.FOLLOWING); :}
```

```
| FOLLOWINGSIBLING
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}
```

```
| NAMESPACE
{: RESULT = new Integer(Axis.NAMESPACE); :}
```

```
| PARENT
{: RESULT = new Integer(Axis.PARENT); :}
```

```
| PRECEDING
{: RESULT = new Integer(Axis.PRECEDING); :}
```

```
| PRECEDINGSIBLING
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}
```

```

| SELF
{: RESULT = new Integer(Axis.SELF); :};

AbbreviatedStep ::= DOT
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

| DDOT
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::= PrimaryExpr:primary
{: RESULT = primary; :}

| PrimaryExpr:primary Predicates:pp
{: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
{: RESULT = vr; :}

| LPAREN Expr:ex RPAREN
{: RESULT = ex; :}

| Literal:string
{:
/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
: new LiteralExpr(string, namespace);
:}

| INT:num
{:
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
}
else {

```

```

    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}
:}

```

```

| REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

```

```

| FunctionCall:fc
{: RESULT = fc; :};

```

VariableReference ::= DOLLAR VariableName:varName

```

{:
    // An empty QName prefix for a variable or parameter reference
    // should map to the null namespace and not the default URI.
    SyntaxTreeNode node = parser.lookupName(varName);

    if (node != null) {
        if (node instanceof Variable) {
            RESULT = new VariableRef((Variable)node);
        }
        else if (node instanceof Param) {
            RESULT = new ParameterRef((Param)node);
        }
        else {
            RESULT = new UnresolvedRef(varName);
        }
    }

    if (node == null) {
        RESULT = new UnresolvedRef(varName);
    }
};

```

FunctionCall ::= FunctionName:fname LPAREN RPAREN

```

{:
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    }
};

```

```

}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:}

```

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN

```

{:
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {

```

```

parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

```



```

}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
};

```

NonemptyArgumentList ::= Argument:arg

```

{:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
:}

```

| Argument:arg COMMA NonemptyArgumentList:argl  
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname

```

{:
    RESULT = fname;
:};

```

VariableName ::= QName:vname

```

{:
    RESULT = vname;
:};

```

```

Argument ::= Expr:ex
    {: RESULT = ex; :};

NodeTest ::= NameTest:nt
    {: RESULT = nt; :}

    | NODE
    {: RESULT = new Integer(NodeTest.ANODE); :}

    | TEXT
    {: RESULT = new Integer(NodeTest.TEXT); :}

    | COMMENT
    {: RESULT = new Integer(NodeTest.COMMENT); :}

    | PIPARAM LPAREN Literal:l RPAREN
    {:
        QName name = parser.getQNameIgnoreDefaultNs("name");
        Expression exp = new EqualityExpr(Operators.EQ,
            new NameCall(name),
            new LiteralExpr(l));
        Vector predicates = new Vector();
        predicates.addElement(new Predicate(exp));
        RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    :}

    | PI
    {: RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
    {: RESULT = null; :}

    | QName:qn
    {: RESULT = qn; :};

QName ::= QNAME:qname
    {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

    | DIV
    {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
    {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

    | KEY
    {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

```

```
| ANCESTOR
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| ANCESTORORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

| ATTRIBUTE
{: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

| CHILD
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| DESCENDANT
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

| DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

| FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

| FOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

| PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

| PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

| PRECEDINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup

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

/\*

```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/*
 * $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
 */
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{

    /**
     * Get the basic version string for the current Xalan release.
     * Version String formatted like
     * <CODE>"<B>Xalan</B> <B>Java</B> v.r.f.dd| <B>D</B>nn]"</CODE>.
     *
     * Futurework: have this read version info from jar manifest.
     *
     * @return String denoting our current version
     */
    public static String getVersion()
    {
        return getProduct()+" "+getImplementationLanguage()+" "
            +getMajorVersionNum()+"."+getReleaseVersionNum()+"."

```

```

        +( getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
    }

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

```

```

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)

```

```
    return 0;
else
    return Integer.parseInt("@version.DEVELOPER@");
} catch (NumberFormatException nfe) {
    return 0;
}
}
}
```

Found in path(s):

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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 */
// Proprietary
/** The 'document-location()' id (Proprietary). */
```

Found in path(s):

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java

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- \*/

Found in path(s):

- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/SecuritySupport.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/GetOptsException.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MarkerInstruction.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/res/XResources\_ja\_JP\_A.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LastCall.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/BitArray.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/WrappedRuntimeException.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorText.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplate.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMAxisIterator.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHEMessages.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/DefaultErrorHandler.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartXPath.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalParamDecl.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/NotEquals.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_zh.java
- \* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-



jar/org/apache/xalan/xsltc/cmdline/ObjectFactory.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/AlternativePattern.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/SecuritySupport.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/Utils/SerializerMessages\_es.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_zh\_TW.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/templates/ElemExtensionScript.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/Utils/ObjectPool.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/ProcessorVersion.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/lib/SecuritySupport.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/UnparsedEntityUriCall.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/FilterIterator.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/Constants.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/Utils/WrongParserException.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/KeyCall.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/transformer/DecimalToRoman.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/SourceLoader.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/operations/Equals.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/NthIterator.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/axes/FilterExprWalker.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/domapi/XPathResultImpl.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-

jar/org/apache/xpath/objects/XStringForChars.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/res/XResources\_cy.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/ObjectStack.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/axes/AttributeIterator.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/transformer/KeyManager.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/XPathProcessorException.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/templates/ElemAttribute.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/domapi/XPathNSResolverImpl.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/CollatorFactoryBase.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/transformer/KeyRefIterator.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/XMLStringFactoryDefault.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/res/XSLTErrorResources\_zh\_CN.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/objects/XBooleanStatic.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/dom3/DOM3TreeWalker.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_es.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/VariableRef.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/trace/TraceListenerEx.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/res/XResourceBundleBase.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/StringType.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/StringLengthCall.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/res/XSLTErrorResources\_ko.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xslt/SecuritySupport.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/cmdline/getopt/MissingOptArgException.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/transformer/TransformerClient.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-

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\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
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```
*/
// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/TransformerFactoryImpl.java
No license file was found, but licenses were detected in source scan.

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*/
// Proprietary, built in functions
/** current function string (Proprietary). */
```

```
Found in path(s):
* /opt/cola/permits/1449281020_1666559375.8056898/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/Keywords.java
```

# 1.292 google-uuid 1.3.0

## 1.292.1 Available under license :

Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

dansouza

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## 1.293 gettext-go v0.0.0-20160711120539-c6fed771bfd5

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## 1.294 base-files 10.1ubuntu2.11

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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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it under the terms of the GNU General Public License as published by
```



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

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

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```
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```

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

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

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

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

```
Gnomovision version 69, Copyright (C) 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  
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```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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# 1.295 audit 2.8.5-2ubuntu6

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## 1.296 cpp 8.3.0 6ubuntu1~18.04.1

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

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```
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@c Set file name and title for man page.
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@settitle GNU General Public License
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@c man end
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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
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@c This file is intended to be included in another file.
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```
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That's all there is to it!  
DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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/*
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```
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/GLSL.ext.NV.h
```

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```
/* Bison interface for Yacc-like parsers in C
```

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\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/disassemble.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/Include/InfoSink.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/parseVersions.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/SPIRV/SpvBuilder.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/Include/ShHandle.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/Include/ConstantUnion.h

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\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/SPIRV/doc.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/SymbolTable.cpp

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\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslParseHelper.cpp

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\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/ShaderLang.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/SPIRV/disassemble.cpp

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\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/ParseHelper.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/SPIRV/doc.h

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\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/Initialize.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslParseHelper.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/StandAlone/spirv-remap.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/Include/InitializeGlobals.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/RemoveTree.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/hlsl/hlslParseables.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/OSDependent/osinclude.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/intermOut.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/SPIRV/SpvBuilder.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/OpenGLCompilersDLL/InitializeDll.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/reflection.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/OSDependent/Unix/ossource.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/Scan.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/localintermediate.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/Scan.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/Constant.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/limits.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/OpenGLCompilersDLL/InitializeDll.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/GenericCodeGen/Link.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/ScanContext.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/StandAlone/DirStackFileIncluder.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/linkValidate.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/SPIRV/InReadableOrder.cpp

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\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/OSDependent/Windows/main.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Public/ShaderLang.h  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/parseConst.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/Initialize.h  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/RemoveTree.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/StandAlone/StandAlone.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/iomapper.cpp  
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\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/ResourceLimits.h

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//

/**
 * This is bison grammar and productions for parsing all versions of the
 * GLSL shading languages.
 */
%{

/* Based on:
ANSI C Yacc grammar

```

In 1985, Jeff Lee published his Yacc grammar (which is accompanied by a matching Lex specification) for the April 30, 1985 draft version of the ANSI C standard. Tom Stockfisch reposted it to net.sources in 1987; that original, as mentioned in the answer to question 17.25 of the comp.lang.c



FAQ, can be ftp'ed from ftp.uu.net, file usenet/net.sources/ansi.c.grammar.Z.

I intend to keep this version as close to the current C Standard grammar as possible; please let me know if you discover discrepancies.

Jutta Degener, 1995

\*/

```
#include "SymbolTable.h"
#include "ParseHelper.h"
#include "../Public/ShaderLang.h"
#include "attribute.h"
```

```
using namespace glslang;
```

```
% }
```

```
%define parse.error verbose
```

```
%union {
  struct {
    glslang::TSourceLoc loc;
    union {
      glslang::TString *string;
      int i;
      unsigned int u;
      long long i64;
      unsigned long long u64;
      bool b;
      double d;
    };
    glslang::TSymbol* symbol;
  } lex;
  struct {
    glslang::TSourceLoc loc;
    glslang::TOperator op;
    union {
      TIntermNode* intermNode;
      glslang::TIntermNodePair nodePair;
      glslang::TIntermTyped* intermTypedNode;
      glslang::TAttributes* attributes;
    };
    union {
      glslang::TPublicType type;
      glslang::TFunction* function;
      glslang::TParameter param;
      glslang::TTypeLoc typeLine;
      glslang::TTypeList* typeList;
```

```

        glslang::TArraySizes* arraySizes;
        glslang::TIdentifierList* identifierList;
    };
} interm;
}

%{

/* windows only pragma */
#ifdef _MSC_VER
    #pragma warning(disable : 4065)
    #pragma warning(disable : 4127)
    #pragma warning(disable : 4244)
#endif

#define parseContext (*pParseContext)
#define yyerror(context, msg) context->parserError(msg)

extern int yylex(YYSSTYPE*, TParseContext&);

%}

%parse-param {glslang::TParseContext* pParseContext}
%lex-param {parseContext}
%pure-parser // enable thread safety
%expect 1 // One shift reduce conflict because of if | else

%token <lex> ATTRIBUTE VARYING
%token <lex> FLOAT16_T FLOAT FLOAT32_T DOUBLE FLOAT64_T
%token <lex> CONST BOOL INT UINT INT64_T UINT64_T INT32_T UINT32_T INT16_T UINT16_T INT8_T
UINT8_T
%token <lex> BREAK CONTINUE DO ELSE FOR IF DISCARD RETURN SWITCH CASE DEFAULT
SUBROUTINE
%token <lex> BVEC2 BVEC3 BVEC4
%token <lex> IVEC2 IVEC3 IVEC4
%token <lex> UVEC2 UVEC3 UVEC4
%token <lex> I64VEC2 I64VEC3 I64VEC4
%token <lex> U64VEC2 U64VEC3 U64VEC4
%token <lex> I32VEC2 I32VEC3 I32VEC4
%token <lex> U32VEC2 U32VEC3 U32VEC4
%token <lex> I16VEC2 I16VEC3 I16VEC4
%token <lex> U16VEC2 U16VEC3 U16VEC4
%token <lex> I8VEC2 I8VEC3 I8VEC4
%token <lex> U8VEC2 U8VEC3 U8VEC4
%token <lex> VEC2 VEC3 VEC4
%token <lex> MAT2 MAT3 MAT4 CENTROID IN OUT INOUT
%token <lex> UNIFORM PATCH SAMPLE BUFFER SHARED
%token <lex> COHERENT VOLATILE RESTRICT READONLY WRITEONLY

```

%token <lex> DVEC2 DVEC3 DVEC4 DMAT2 DMAT3 DMAT4  
 %token <lex> F16VEC2 F16VEC3 F16VEC4 F16MAT2 F16MAT3 F16MAT4  
 %token <lex> F32VEC2 F32VEC3 F32VEC4 F32MAT2 F32MAT3 F32MAT4  
 %token <lex> F64VEC2 F64VEC3 F64VEC4 F64MAT2 F64MAT3 F64MAT4  
 %token <lex> NOPERSPECTIVE FLAT SMOOTH LAYOUT \_\_EXPLICITINTERPAMD  
  
 %token <lex> MAT2X2 MAT2X3 MAT2X4  
 %token <lex> MAT3X2 MAT3X3 MAT3X4  
 %token <lex> MAT4X2 MAT4X3 MAT4X4  
 %token <lex> DMAT2X2 DMAT2X3 DMAT2X4  
 %token <lex> DMAT3X2 DMAT3X3 DMAT3X4  
 %token <lex> DMAT4X2 DMAT4X3 DMAT4X4  
 %token <lex> F16MAT2X2 F16MAT2X3 F16MAT2X4  
 %token <lex> F16MAT3X2 F16MAT3X3 F16MAT3X4  
 %token <lex> F16MAT4X2 F16MAT4X3 F16MAT4X4  
 %token <lex> F32MAT2X2 F32MAT2X3 F32MAT2X4  
 %token <lex> F32MAT3X2 F32MAT3X3 F32MAT3X4  
 %token <lex> F32MAT4X2 F32MAT4X3 F32MAT4X4  
 %token <lex> F64MAT2X2 F64MAT2X3 F64MAT2X4  
 %token <lex> F64MAT3X2 F64MAT3X3 F64MAT3X4  
 %token <lex> F64MAT4X2 F64MAT4X3 F64MAT4X4  
 %token <lex> ATOMIC\_UINT  
  
 // combined image/sampler  
 %token <lex> SAMPLER1D SAMPLER2D SAMPLER3D SAMPLERCUBE SAMPLER1DSHADOW  
 SAMPLER2DSHADOW  
 %token <lex> SAMPLERCUBESHADOW SAMPLER1DARRAY SAMPLER2DARRAY  
 SAMPLER1DARRAYSHADOW  
 %token <lex> SAMPLER2DARRAYSHADOW ISAMPLER1D ISAMPLER2D ISAMPLER3D ISAMPLERCUBE  
 %token <lex> ISAMPLER1DARRAY ISAMPLER2DARRAY USAMPLER1D USAMPLER2D USAMPLER3D  
 %token <lex> USAMPLERCUBE USAMPLER1DARRAY USAMPLER2DARRAY  
 %token <lex> SAMPLER2DRECT SAMPLER2DRECTSHADOW ISAMPLER2DRECT USAMPLER2DRECT  
 %token <lex> SAMPLERBUFFER ISAMPLERBUFFER USAMPLERBUFFER  
 %token <lex> SAMPLERCUBEARRAY SAMPLERCUBEARRAYSHADOW  
 %token <lex> ISAMPLERCUBEARRAY USAMPLERCUBEARRAY  
 %token <lex> SAMPLER2DMS ISAMPLER2DMS USAMPLER2DMS  
 %token <lex> SAMPLER2DMSARRAY ISAMPLER2DMSARRAY USAMPLER2DMSARRAY  
 %token <lex> SAMPLEREXTERNALOES  
  
 %token <lex> F16SAMPLER1D F16SAMPLER2D F16SAMPLER3D F16SAMPLER2DRECT  
 F16SAMPLERCUBE  
 %token <lex> F16SAMPLER1DARRAY F16SAMPLER2DARRAY F16SAMPLERCUBEARRAY  
 %token <lex> F16SAMPLERBUFFER F16SAMPLER2DMS F16SAMPLER2DMSARRAY  
 %token <lex> F16SAMPLER1DSHADOW F16SAMPLER2DSHADOW F16SAMPLER1DARRAYSHADOW  
 F16SAMPLER2DARRAYSHADOW  
 %token <lex> F16SAMPLER2DRECTSHADOW F16SAMPLERCUBESHADOW  
 F16SAMPLERCUBEARRAYSHADOW

```

// pure sampler
%token <lex> SAMPLER SAMPLERSHADOW

// texture without sampler
%token <lex> TEXTURE1D TEXTURE2D TEXTURE3D TEXTURECUBE
%token <lex> TEXTURE1DARRAY TEXTURE2DARRAY
%token <lex> ITEXTURE1D ITEXTURE2D ITEXTURE3D ITEXTURECUBE
%token <lex> ITEXTURE1DARRAY ITEXTURE2DARRAY UTEXTURE1D UTEXTURE2D UTEXTURE3D
%token <lex> UTEXTURECUBE UTEXTURE1DARRAY UTEXTURE2DARRAY
%token <lex> TEXTURE2DRECT ITEXTURE2DRECT UTEXTURE2DRECT
%token <lex> TEXTUREBUFFER ITEXTUREBUFFER UTEXTUREBUFFER
%token <lex> TEXTURECUBEARRAY ITEXTURECUBEARRAY UTEXTURECUBEARRAY
%token <lex> TEXTURE2DMS ITEXTURE2DMS UTEXTURE2DMS
%token <lex> TEXTURE2DMSARRAY ITEXTURE2DMSARRAY UTEXTURE2DMSARRAY

%token <lex> F16TEXTURE1D F16TEXTURE2D F16TEXTURE3D F16TEXTURE2DRECT
F16TEXTURECUBE
%token <lex> F16TEXTURE1DARRAY F16TEXTURE2DARRAY F16TEXTURECUBEARRAY
%token <lex> F16TEXTUREBUFFER F16TEXTURE2DMS F16TEXTURE2DMSARRAY

// input attachments
%token <lex> SUBPASSINPUT SUBPASSINPUTMS ISUBPASSINPUT ISUBPASSINPUTMS
USUBPASSINPUT USUBPASSINPUTMS
%token <lex> F16SUBPASSINPUT F16SUBPASSINPUTMS

%token <lex> IMAGE1D IIMAGE1D UIMAGE1D IMAGE2D IIMAGE2D
%token <lex> UIMAGE2D IMAGE3D IIMAGE3D UIMAGE3D
%token <lex> IMAGE2DRECT IIMAGE2DRECT UIMAGE2DRECT
%token <lex> IMAGECUBE IIMAGECUBE UIMAGECUBE
%token <lex> IMAGEBUFFER IIMAGEBUFFER UIMAGEBUFFER
%token <lex> IMAGE1DARRAY IIMAGE1DARRAY UIMAGE1DARRAY
%token <lex> IMAGE2DARRAY IIMAGE2DARRAY UIMAGE2DARRAY
%token <lex> IMAGECUBEARRAY IIMAGECUBEARRAY UIMAGECUBEARRAY
%token <lex> IMAGE2DMS IIMAGE2DMS UIMAGE2DMS
%token <lex> IMAGE2DMSARRAY IIMAGE2DMSARRAY UIMAGE2DMSARRAY

%token <lex> F16IMAGE1D F16IMAGE2D F16IMAGE3D F16IMAGE2DRECT
%token <lex> F16IMAGECUBE F16IMAGE1DARRAY F16IMAGE2DARRAY F16IMAGECUBEARRAY
%token <lex> F16IMAGEBUFFER F16IMAGE2DMS F16IMAGE2DMSARRAY

%token <lex> STRUCT VOID WHILE

%token <lex> IDENTIFIER TYPE_NAME
%token <lex> FLOATCONSTANT DOUBLECONSTANT INT16CONSTANT UINT16CONSTANT
INT32CONSTANT UINT32CONSTANT INTCONSTANT UINTCONSTANT INT64CONSTANT
UINT64CONSTANT BOOLCONSTANT FLOAT16CONSTANT
%token <lex> LEFT_OP RIGHT_OP
%token <lex> INC_OP DEC_OP LE_OP GE_OP EQ_OP NE_OP

```

```

%token <lex> AND_OP OR_OP XOR_OP MUL_ASSIGN DIV_ASSIGN ADD_ASSIGN
%token <lex> MOD_ASSIGN LEFT_ASSIGN RIGHT_ASSIGN AND_ASSIGN XOR_ASSIGN OR_ASSIGN
%token <lex> SUB_ASSIGN

%token <lex> LEFT_PAREN RIGHT_PAREN LEFT_BRACKET RIGHT_BRACKET LEFT_BRACE
RIGHT_BRACE DOT
%token <lex> COMMA COLON EQUAL SEMICOLON BANG DASH TILDE PLUS STAR SLASH PERCENT
%token <lex> LEFT_ANGLE RIGHT_ANGLE VERTICAL_BAR CARET AMPERSAND QUESTION

%token <lex> INVARIANT PRECISE
%token <lex> HIGH_PRECISION MEDIUM_PRECISION LOW_PRECISION PRECISION

%token <lex> PACKED RESOURCE SUPERP

%type <interm> assignment_operator unary_operator
%type <interm.intermTypedNode> variable_identifier primary_expression postfix_expression
%type <interm.intermTypedNode> expression integer_expression assignment_expression
%type <interm.intermTypedNode> unary_expression multiplicative_expression additive_expression
%type <interm.intermTypedNode> relational_expression equality_expression
%type <interm.intermTypedNode> conditional_expression constant_expression
%type <interm.intermTypedNode> logical_or_expression logical_xor_expression logical_and_expression
%type <interm.intermTypedNode> shift_expression and_expression exclusive_or_expression
inclusive_or_expression
%type <interm.intermTypedNode> function_call initializer initializer_list condition conditionopt

%type <interm.intermNode> translation_unit function_definition
%type <interm.intermNode> statement simple_statement
%type <interm.intermNode> statement_list switch_statement_list compound_statement
%type <interm.intermNode> declaration_statement selection_statement selection_statement_nonattributed
expression_statement
%type <interm.intermNode> switch_statement switch_statement_nonattributed case_label
%type <interm.intermNode> declaration external_declaration
%type <interm.intermNode> for_init_statement compound_statement_no_new_scope
%type <interm.nodePair> selection_rest_statement for_rest_statement
%type <interm.intermNode> iteration_statement iteration_statement_nonattributed jump_statement
statement_no_new_scope statement_scoped
%type <interm> single_declaration init_declarator_list

%type <interm> parameter_declaration parameter_declarator parameter_type_specifier

%type <interm> array_specifier
%type <interm.type> precise_qualifier invariant_qualifier interpolation_qualifier storage_qualifier
precision_qualifier
%type <interm.type> layout_qualifier layout_qualifier_id_list layout_qualifier_id

%type <interm.type> type_qualifier fully_specified_type type_specifier
%type <interm.type> single_type_qualifier
%type <interm.type> type_specifier_nonarray

```

```

%type <interm.type> struct_specifier
%type <interm.typeLine> struct_declarator
%type <interm.typeList> struct_declarator_list struct_declaration struct_declaration_list type_name_list
%type <interm> block_structure
%type <interm.function> function_header function_declarator
%type <interm.function> function_header_with_parameters
%type <interm> function_call_header_with_parameters function_call_header_no_parameters function_call_generic
function_prototype
%type <interm> function_call_or_method function_identifier function_call_header

%type <interm.identifierList> identifier_list

%type <interm.attributes> attribute attribute_list single_attribute

%start translation_unit
%%

variable_identifier
: IDENTIFIER {
    $$ = parseContext.handleVariable($1.loc, $1.symbol, $1.string);
}
;

primary_expression
: variable_identifier {
    $$ = $1;
}
| INT32CONSTANT {
    parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
    $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
}
| UINT32CONSTANT {
    parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
    $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
}
| INTCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
}
| UINTCONSTANT {
    parseContext.fullIntegerCheck($1.loc, "unsigned literal");
    $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
}
| INT64CONSTANT {
    parseContext.int64Check($1.loc, "64-bit integer literal");
    $$ = parseContext.intermediate.addConstantUnion($1.i64, $1.loc, true);
}
| UINT64CONSTANT {
    parseContext.int64Check($1.loc, "64-bit unsigned integer literal");
}

```

```

    $$ = parseContext.intermediate.addConstantUnion($1.u64, $1.loc, true);
}
| INT16CONSTANT {
    parseContext.explicitInt16Check($1.loc, "16-bit integer literal");
    $$ = parseContext.intermediate.addConstantUnion((short)$1.i, $1.loc, true);
}
| UINT16CONSTANT {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer literal");
    $$ = parseContext.intermediate.addConstantUnion((unsigned short)$1.u, $1.loc, true);
}
| FLOATCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat, $1.loc, true);
}
| DOUBLECONSTANT {
    parseContext.doubleCheck($1.loc, "double literal");
    $$ = parseContext.intermediate.addConstantUnion($1.d, EbtDouble, $1.loc, true);
}
| FLOAT16CONSTANT {
    parseContext.float16Check($1.loc, "half float literal");
    $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat16, $1.loc, true);
}
| BOOLCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.b, $1.loc, true);
}
| LEFT_PAREN expression RIGHT_PAREN {
    $$ = $2;
    if ($$->getAsConstantUnion())
        $$->getAsConstantUnion()->setExpression();
}
;

postfix_expression
: primary_expression {
    $$ = $1;
}
| postfix_expression LEFT_BRACKET integer_expression RIGHT_BRACKET {
    $$ = parseContext.handleBracketDereference($2.loc, $1, $3);
}
| function_call {
    $$ = $1;
}
| postfix_expression DOT IDENTIFIER {
    $$ = parseContext.handleDotDereference($3.loc, $1, *$3.string);
}
| postfix_expression INC_OP {
    parseContext.variableCheck($1);
    parseContext.IValueErrorCheck($2.loc, "++", $1);
    $$ = parseContext.handleUnaryMath($2.loc, "++", EOpPostIncrement, $1);
}

```

```

}
| postfix_expression DEC_OP {
    parseContext.variableCheck($1);
    parseContext.IValueErrorCheck($2.loc, "--", $1);
    $$ = parseContext.handleUnaryMath($2.loc, "--", EOpPostDecrement, $1);
}
;

integer_expression
: expression {
    parseContext.integerCheck($1, "[]");
    $$ = $1;
}
;

function_call
: function_call_or_method {
    $$ = parseContext.handleFunctionCall($1.loc, $1.function, $1.intermNode);
    delete $1.function;
}
;

function_call_or_method
: function_call_generic {
    $$ = $1;
}
;

function_call_generic
: function_call_header_with_parameters RIGHT_PAREN {
    $$ = $1;
    $$loc = $2.loc;
}
| function_call_header_no_parameters RIGHT_PAREN {
    $$ = $1;
    $$loc = $2.loc;
}
;

function_call_header_no_parameters
: function_call_header VOID {
    $$ = $1;
}
| function_call_header {
    $$ = $1;
}
;

```



```

function_call_header_with_parameters
: function_call_header assignment_expression {
    TParameter param = { 0, new TType };
    param.type->shallowCopy($2->getType());
    $1.function->addParameter(param);
    $$function = $1.function;
    $$intermNode = $2;
}
| function_call_header_with_parameters COMMA assignment_expression {
    TParameter param = { 0, new TType };
    param.type->shallowCopy($3->getType());
    $1.function->addParameter(param);
    $$function = $1.function;
    $$intermNode = parseContext.intermediate.growAggregate($1.intermNode, $3, $2.loc);
}
;

```

```

function_call_header
: function_identifier LEFT_PAREN {
    $$ = $1;
}
;

```

// Grammar Note: Constructors look like functions, but are recognized as types.

```

function_identifier
: type_specifier {
    // Constructor
    $$intermNode = 0;
    $$function = parseContext.handleConstructorCall($1.loc, $1);
}
| postfix_expression {
    //
    // Should be a method or subroutine call, but we haven't recognized the arguments yet.
    //
    $$function = 0;
    $$intermNode = 0;

    TIntermMethod* method = $1->getAsMethodNode();
    if (method) {
        $$function = new TFunction(&method->getMethodName(), TType(EbtInt), EOpArrayLength);
        $$intermNode = method->getObject();
    } else {
        TIntermSymbol* symbol = $1->getAsSymbolNode();
        if (symbol) {
            parseContext.reservedErrorCheck(symbol->getLoc(), symbol->getName());
            TFunction *function = new TFunction(&symbol->getName(), TType(EbtVoid));
            $$function = function;
        }
    }
}

```

```

    } else
        parseContext.error($1->getLoc(), "function call, method, or subroutine call expected", "", "");
    }

    if ($$.function == 0) {
        // error recover
        TString empty("");
        $$function = new TFunction(&empty, TType(EbtVoid), EOpNull);
    }
}
;

unary_expression
: postfix_expression {
    parseContext.variableCheck($1);
    $$ = $1;
    if (TIntermMethod* method = $1->getAsMethodNode())
        parseContext.error($1->getLoc(), "incomplete method syntax", method->getMethodName().c_str(), "");
}
| INC_OP unary_expression {
    parseContext.IValueErrorCheck($1.loc, "++", $2);
    $$ = parseContext.handleUnaryMath($1.loc, "++", EOpPreIncrement, $2);
}
| DEC_OP unary_expression {
    parseContext.IValueErrorCheck($1.loc, "--", $2);
    $$ = parseContext.handleUnaryMath($1.loc, "--", EOpPreDecrement, $2);
}
| unary_operator unary_expression {
    if ($1.op != EOpNull) {
        char errorOp[2] = {0, 0};
        switch($1.op) {
            case EOpNegative: errorOp[0] = '-'; break;
            case EOpLogicalNot: errorOp[0] = '!'; break;
            case EOpBitwiseNot: errorOp[0] = '~'; break;
            default: break; // some compilers want this
        }
        $$ = parseContext.handleUnaryMath($1.loc, errorOp, $1.op, $2);
    } else {
        $$ = $2;
        if ($$->getAsConstantUnion())
            $$->getAsConstantUnion()->setExpression();
    }
}
;

// Grammar Note: No traditional style type casts.

unary_operator
: PLUS { $$loc = $1.loc; $.op = EOpNull; }

```

```

| DASH { $$loc = $1.loc; $.op = EOpNegative; }
| BANG { $$loc = $1.loc; $.op = EOpLogicalNot; }
| TILDE { $$loc = $1.loc; $.op = EOpBitwiseNot;
         parseContext.fullIntegerCheck($1.loc, "bitwise not"); }
;

// Grammar Note: No '*' or '&' unary ops. Pointers are not supported.

multiplicative_expression
: unary_expression { $$ = $1; }
| multiplicative_expression STAR unary_expression {
  $$ = parseContext.handleBinaryMath($2.loc, "*", EOpMul, $1, $3);
  if ($$ == 0)
    $$ = $1;
}
| multiplicative_expression SLASH unary_expression {
  $$ = parseContext.handleBinaryMath($2.loc, "/", EOpDiv, $1, $3);
  if ($$ == 0)
    $$ = $1;
}
| multiplicative_expression PERCENT unary_expression {
  parseContext.fullIntegerCheck($2.loc, "%");
  $$ = parseContext.handleBinaryMath($2.loc, "%", EOpMod, $1, $3);
  if ($$ == 0)
    $$ = $1;
}
;

additive_expression
: multiplicative_expression { $$ = $1; }
| additive_expression PLUS multiplicative_expression {
  $$ = parseContext.handleBinaryMath($2.loc, "+", EOpAdd, $1, $3);
  if ($$ == 0)
    $$ = $1;
}
| additive_expression DASH multiplicative_expression {
  $$ = parseContext.handleBinaryMath($2.loc, "-", EOpSub, $1, $3);
  if ($$ == 0)
    $$ = $1;
}
;

shift_expression
: additive_expression { $$ = $1; }
| shift_expression LEFT_OP additive_expression {
  parseContext.fullIntegerCheck($2.loc, "bit shift left");
  $$ = parseContext.handleBinaryMath($2.loc, "<<", EOpLeftShift, $1, $3);
  if ($$ == 0)
    $$ = $1;
}
;

```

```

}
| shift_expression RIGHT_OP additive_expression {
    parseContext.fullIntegerCheck($2.loc, "bit shift right");
    $$ = parseContext.handleBinaryMath($2.loc, ">>", EOpRightShift, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
;

relational_expression
: shift_expression { $$ = $1; }
| relational_expression LEFT_ANGLE shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "<", EOpLessThan, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression RIGHT_ANGLE shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, ">", EOpGreaterThan, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression LE_OP shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "<=", EOpLessThanEqual, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression GE_OP shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, ">=", EOpGreaterThanEqual, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

equality_expression
: relational_expression { $$ = $1; }
| equality_expression EQ_OP relational_expression {
    parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
    parseContext.opaqueCheck($2.loc, $1->getType(), "==");
    parseContext.specializationCheck($2.loc, $1->getType(), "==");
    $$ = parseContext.handleBinaryMath($2.loc, "==", EOpEqual, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| equality_expression NE_OP relational_expression {
    parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
    parseContext.opaqueCheck($2.loc, $1->getType(), "!=");
    parseContext.specializationCheck($2.loc, $1->getType(), "!=");
    $$ = parseContext.handleBinaryMath($2.loc, "!=", EOpNotEqual, $1, $3);
}

```

```

    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
;

and_expression
: equality_expression { $$ = $1; }
| and_expression AMPERSAND equality_expression {
    parseContext.fullIntegerCheck($2.loc, "bitwise and");
    $$ = parseContext.handleBinaryMath($2.loc, "&", EOpAnd, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
;

exclusive_or_expression
: and_expression { $$ = $1; }
| exclusive_or_expression CARET and_expression {
    parseContext.fullIntegerCheck($2.loc, "bitwise exclusive or");
    $$ = parseContext.handleBinaryMath($2.loc, "^", EOpExclusiveOr, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
;

inclusive_or_expression
: exclusive_or_expression { $$ = $1; }
| inclusive_or_expression VERTICAL_BAR exclusive_or_expression {
    parseContext.fullIntegerCheck($2.loc, "bitwise inclusive or");
    $$ = parseContext.handleBinaryMath($2.loc, "|", EOpInclusiveOr, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
;

logical_and_expression
: inclusive_or_expression { $$ = $1; }
| logical_and_expression AND_OP inclusive_or_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "&&", EOpLogicalAnd, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

logical_xor_expression
: logical_and_expression { $$ = $1; }
| logical_xor_expression XOR_OP logical_and_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "^", EOpLogicalXor, $1, $3);
}
;

```

```

    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

```

logical\_or\_expression

```

: logical_xor_expression { $$ = $1; }
| logical_or_expression OR_OP logical_xor_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "||", EOpLogicalOr, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

```

conditional\_expression

```

: logical_or_expression { $$ = $1; }
| logical_or_expression QUESTION {
    ++parseContext.controlFlowNestingLevel;
}
expression COLON assignment_expression {
    --parseContext.controlFlowNestingLevel;
    parseContext.boolCheck($2.loc, $1);
    parseContext.rValueErrorCheck($2.loc, "?", $1);
    parseContext.rValueErrorCheck($5.loc, ":", $4);
    parseContext.rValueErrorCheck($5.loc, ":", $6);
    $$ = parseContext.intermediate.addSelection($1, $4, $6, $2.loc);
    if ($$ == 0) {
        parseContext.binaryOpError($2.loc, ":", $4->getCompleteString(), $6->getCompleteString());
        $$ = $6;
    }
}
;

```

assignment\_expression

```

: conditional_expression { $$ = $1; }
| unary_expression assignment_operator assignment_expression {
    parseContext.arrayObjectCheck($2.loc, $1->getType(), "array assignment");
    parseContext.opaqueCheck($2.loc, $1->getType(), "=");
    parseContext.specializationCheck($2.loc, $1->getType(), "=");
    parseContext.IValueErrorCheck($2.loc, "assign", $1);
    parseContext.rValueErrorCheck($2.loc, "assign", $3);
    $$ = parseContext.intermediate.addAssign($2.op, $1, $3, $2.loc);
    if ($$ == 0) {
        parseContext.assignError($2.loc, "assign", $1->getCompleteString(), $3->getCompleteString());
        $$ = $1;
    }
}
;

```

```

assignment_operator
: EQUAL {
    $$loc = $1.loc;
    $$op = EOpAssign;
}
| MUL_ASSIGN {
    $$loc = $1.loc;
    $$op = EOpMulAssign;
}
| DIV_ASSIGN {
    $$loc = $1.loc;
    $$op = EOpDivAssign;
}
| MOD_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "%=");
    $$loc = $1.loc;
    $$op = EOpModAssign;
}
| ADD_ASSIGN {
    $$loc = $1.loc;
    $$op = EOpAddAssign;
}
| SUB_ASSIGN {
    $$loc = $1.loc;
    $$op = EOpSubAssign;
}
| LEFT_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bit-shift left assign");
    $$loc = $1.loc; $$op = EOpLeftShiftAssign;
}
| RIGHT_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bit-shift right assign");
    $$loc = $1.loc; $$op = EOpRightShiftAssign;
}
| AND_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bitwise-and assign");
    $$loc = $1.loc; $$op = EOpAndAssign;
}
| XOR_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bitwise-xor assign");
    $$loc = $1.loc; $$op = EOpExclusiveOrAssign;
}
| OR_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bitwise-or assign");
    $$loc = $1.loc; $$op = EOpInclusiveOrAssign;
}
;

```

```

expression
: assignment_expression {
    $$ = $1;
}
| expression COMMA assignment_expression {
    parseContext.samplerConstructorLocationCheck($2.loc, ",", $3);
    $$ = parseContext.intermediate.addComma($1, $3, $2.loc);
    if ($$ == 0) {
        parseContext.binaryOpError($2.loc, ",", $1->getCompleteString(), $3->getCompleteString());
        $$ = $3;
    }
}
;

```

```

constant_expression
: conditional_expression {
    parseContext.constantValueCheck($1, "");
    $$ = $1;
}
;

```

```

declaration
: function_prototype SEMICOLON {
    parseContext.handleFunctionDeclarator($1.loc, *$1.function, true /* prototype */);
    $$ = 0;
    // TODO: 4.0 functionality: subroutines: make the identifier a user type for this signature
}
| init_declarator_list SEMICOLON {
    if ($1.intermNode && $1.intermNode->getAsAggregate())
        $1.intermNode->getAsAggregate()->setOperator(EOpSequence);
    $$ = $1.intermNode;
}
| PRECISION precision_qualifier type_specifier SEMICOLON {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "precision statement");

    // lazy setting of the previous scope's defaults, has effect only the first time it is called in a particular scope
    parseContext.symbolTable.setPreviousDefaultPrecisions(&parseContext.defaultPrecision[0]);
    parseContext.setDefaultPrecision($1.loc, $3, $2.qualifier.precision);
    $$ = 0;
}
| block_structure SEMICOLON {
    parseContext.declareBlock($1.loc, *$1.typeList);
    $$ = 0;
}
| block_structure IDENTIFIER SEMICOLON {
    parseContext.declareBlock($1.loc, *$1.typeList, $2.string);
    $$ = 0;
}

```



```

}
| block_structure IDENTIFIER array_specifier SEMICOLON {
    parseContext.declareBlock($1.loc, *$1.typeList, $2.string, $3.arraySizes);
    $$ = 0;
}
| type_qualifier SEMICOLON {
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    parseContext.updateStandaloneQualifierDefaults($1.loc, $1);
    $$ = 0;
}
| type_qualifier IDENTIFIER SEMICOLON {
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$2.string);
    $$ = 0;
}
| type_qualifier IDENTIFIER identifier_list SEMICOLON {
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    $3->push_back($2.string);
    parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$3);
    $$ = 0;
}
;

block_structure
: type_qualifier IDENTIFIER LEFT_BRACE { parseContext.nestedBlockCheck($1.loc); } struct_declaration_list
RIGHT_BRACE {
    --parseContext.structNestingLevel;
    parseContext.blockName = $2.string;
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.currentBlockQualifier = $1.qualifier;
    $$loc = $1.loc;
    $$typeList = $5;
}

identifier_list
: COMMA IDENTIFIER {
    $$ = new TIdentifierList;
    $$->push_back($2.string);
}
| identifier_list COMMA IDENTIFIER {
    $$ = $1;
    $$->push_back($3.string);
}
;

function_prototype
: function_declarator RIGHT_PAREN {

```

```

    $$function = $1;
    $$loc = $2.loc;
}
;

```

function\_declarator

```

: function_header {
    $$ = $1;
}
| function_header_with_parameters {
    $$ = $1;
}
;

```

function\_header\_with\_parameters

```

: function_header parameter_declaration {
    // Add the parameter
    $$ = $1;
    if ($2.param.type->getBasicType() != EbtVoid)
        $1->addParameter($2.param);
    else
        delete $2.param.type;
}
| function_header_with_parameters COMMA parameter_declaration {
    //
    // Only first parameter of one-parameter functions can be void
    // The check for named parameters not being void is done in parameter_declarator
    //
    if ($3.param.type->getBasicType() == EbtVoid) {
        //
        // This parameter > first is void
        //
        parseContext.error($2.loc, "cannot be an argument type except for '(void)', 'void', '');");
        delete $3.param.type;
    } else {
        // Add the parameter
        $$ = $1;
        $1->addParameter($3.param);
    }
}
;

```

function\_header

```

: fully_specified_type IDENTIFIER LEFT_PAREN {
    if ($1.qualifier.storage != EvqGlobal && $1.qualifier.storage != EvqTemporary) {
        parseContext.error($2.loc, "no qualifiers allowed for function return",
            GetStorageQualifierString($1.qualifier.storage), "");
    }
}
;

```

```

    }
    if ($1.arraySizes)
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);

    // Add the function as a prototype after parsing it (we do not support recursion)
    TFunction *function;
    TType type($1);

    // Potentially rename shader entry point function. No-op most of the time.
    parseContext.renameShaderFunction($2.string);

    // Make the function
    function = new TFunction($2.string, type);
    $$ = function;
}
;

parameter_declarator
// Type + name
: type_specifier IDENTIFIER {
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    if ($1.basicType == EbtVoid) {
        parseContext.error($2.loc, "illegal use of type 'void'", $2.string->c_str(), "");
    }
    parseContext.reservedErrorCheck($2.loc, *$2.string);

    TParameter param = {$2.string, new TType($1)};
    $$loc = $2.loc;
    $$param = param;
}
| type_specifier IDENTIFIER array_specifier {
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    parseContext.arrayDimCheck($2.loc, $1.arraySizes, $3.arraySizes);

    parseContext.arraySizeRequiredCheck($3.loc, *$3.arraySizes);
    parseContext.reservedErrorCheck($2.loc, *$2.string);

    TParameter param = { $2.string, new TType($1)};
    parseContext.arrayDimMerge(*param.type, $3.arraySizes);
}

```

```

    $$loc = $2.loc;
    $$param = param;
}
;

parameter_declaration
//
// With name
//
: type_qualifier parameter_declarator {
    $$ = $2;
    if ($1.qualifier.precision != EpqNone)
        $$param.type->getQualifier().precision = $1.qualifier.precision;
    parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());

    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$param.type);
    parseContext.paramCheckFix($1.loc, $1.qualifier, *$$param.type);

}
| parameter_declarator {
    $$ = $1;

    parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
    parseContext.paramCheckFix($1.loc, EvqTemporary, *$$param.type);
    parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());
}
//
// Without name
//
| type_qualifier parameter_type_specifier {
    $$ = $2;
    if ($1.qualifier.precision != EpqNone)
        $$param.type->getQualifier().precision = $1.qualifier.precision;
    parseContext.precisionQualifierCheck($1.loc, $$param.type->getBasicType(), $$param.type->getQualifier());

    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$param.type);
    parseContext.paramCheckFix($1.loc, $1.qualifier, *$$param.type);
}
| parameter_type_specifier {
    $$ = $1;

    parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
    parseContext.paramCheckFix($1.loc, EvqTemporary, *$$param.type);
    parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());
}
;

```

```

parameter_type_specifier
: type_specifier {
    TParameter param = { 0, new TType($1) };
    $$param = param;
    if ($1.arraySizes)
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
}
;

init_declarator_list
: single_declaration {
    $$ = $1;
}
| init_declarator_list COMMA IDENTIFIER {
    $$ = $1;
    parseContext.declareVariable($3.loc, *$3.string, $1.type);
}
| init_declarator_list COMMA IDENTIFIER array_specifier {
    $$ = $1;
    parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes);
}
| init_declarator_list COMMA IDENTIFIER array_specifier EQUAL initializer {
    $$type = $1.type;
    TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes, $6);
    $$intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $5.loc);
}
| init_declarator_list COMMA IDENTIFIER EQUAL initializer {
    $$type = $1.type;
    TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, 0, $5);
    $$intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $4.loc);
}
;

single_declaration
: fully_specified_type {
    $$type = $1;
    $$intermNode = 0;
    parseContext.declareTypeDefaults($$.loc, $$type);
}
| fully_specified_type IDENTIFIER {
    $$type = $1;
    $$intermNode = 0;
    parseContext.declareVariable($2.loc, *$2.string, $1);
}
| fully_specified_type IDENTIFIER array_specifier {
    $$type = $1;
    $$intermNode = 0;
}

```

```

    parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes);
}
| fully_specified_type IDENTIFIER array_specifier EQUAL initializer {
    $$type = $1;
    TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes, $5);
    $$intermNode = parseContext.intermediate.growAggregate(0, initNode, $4.loc);
}
| fully_specified_type IDENTIFIER EQUAL initializer {
    $$type = $1;
    TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
    $$intermNode = parseContext.intermediate.growAggregate(0, initNode, $3.loc);
}

// Grammar Note: No 'enum', or 'typedef'.

fully_specified_type
: type_specifier {
    $$ = $1;

    parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $$);
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
    }

    parseContext.precisionQualifierCheck($$.loc, $$basicType, $$qualifier);
}
| type_qualifier type_specifier {
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $2);

    if ($2.arraySizes) {
        parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
    }

    if ($2.arraySizes && parseContext.arrayQualifierError($2.loc, $1.qualifier))
        $2.arraySizes = 0;

    parseContext.checkNoShaderLayouts($2.loc, $1.shaderQualifiers);
    $2.shaderQualifiers.merge($1.shaderQualifiers);
    parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
    parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

    $$ = $2;

    if (! $$qualifier.isInterpolation() &&
        ((parseContext.language == EShLangVertex && $$qualifier.storage == EvqVaryingOut) ||

```

```

        (parseContext.language == EShLangFragment && $$qualifier.storage == EvqVaryingIn))
        $$qualifier.smooth = true;
    }
;

invariant_qualifier
: INVARIANT {
    parseContext.globalCheck($1.loc, "invariant");
    parseContext.profileRequires($$.loc, ENoProfile, 120, 0, "invariant");
    $$init($1.loc);
    $$qualifier.invariant = true;
}
;

interpolation_qualifier
: SMOOTH {
    parseContext.globalCheck($1.loc, "smooth");
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "smooth");
    parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "smooth");
    $$init($1.loc);
    $$qualifier.smooth = true;
}
| FLAT {
    parseContext.globalCheck($1.loc, "flat");
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "flat");
    parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "flat");
    $$init($1.loc);
    $$qualifier.flat = true;
}
| NOPERSPECTIVE {
    parseContext.globalCheck($1.loc, "noperspective");
    parseContext.requireProfile($1.loc, ~EEsProfile, "noperspective");
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "noperspective");
    $$init($1.loc);
    $$qualifier.nopersp = true;
}
| __EXPLICITINTERPAMD {
#ifdef AMD_EXTENSIONS
    parseContext.globalCheck($1.loc, "__explicitInterpAMD");
    parseContext.profileRequires($1.loc, ECoreProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter,
"explicit interpolation");
    parseContext.profileRequires($1.loc, ECompatibilityProfile, 450,
E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
    $$init($1.loc);
    $$qualifier.explicitInterp = true;
#endif
}
;

```

```

layout_qualifier
: LAYOUT LEFT_PAREN layout_qualifier_id_list RIGHT_PAREN {
    $$ = $3;
}
;

layout_qualifier_id_list
: layout_qualifier_id {
    $$ = $1;
}
| layout_qualifier_id_list COMMA layout_qualifier_id {
    $$ = $1;
    $$.shaderQualifiers.merge($3.shaderQualifiers);
    parseContext.mergeObjectLayoutQualifiers($$.qualifier, $3.qualifier, false);
}

layout_qualifier_id
: IDENTIFIER {
    $$.init($1.loc);
    parseContext.setLayoutQualifier($1.loc, $$, *$1.string);
}
| IDENTIFIER EQUAL constant_expression {
    $$.init($1.loc);
    parseContext.setLayoutQualifier($1.loc, $$, *$1.string, $3);
}
| SHARED { // because "shared" is both an identifier and a keyword
    $$.init($1.loc);
    TString strShared("shared");
    parseContext.setLayoutQualifier($1.loc, $$, strShared);
}
;

precise_qualifier
: PRECISE {
    parseContext.profileRequires($$.loc, ECoreProfile | ECompatibilityProfile, 400, E_GL_ARB_gpu_shader5,
"precise");
    parseContext.profileRequires($1.loc, EEsProfile, 320, Num_AEP_gpu_shader5, AEP_gpu_shader5, "precise");
    $$.init($1.loc);
    $$.qualifier.noContraction = true;
}
;

type_qualifier
: single_type_qualifier {
    $$ = $1;
}
| type_qualifier single_type_qualifier {

```



```

    $$ = $1;
    if ($$.basicType == EbtVoid)
        $$basicType = $2.basicType;

    $$shaderQualifiers.merge($2.shaderQualifiers);
    parseContext.mergeQualifiers($$.loc, $$qualifier, $2.qualifier, false);
}
;

single_type_qualifier
: storage_qualifier {
    $$ = $1;
}
| layout_qualifier {
    $$ = $1;
}
| precision_qualifier {
    parseContext.checkPrecisionQualifier($1.loc, $1.qualifier.precision);
    $$ = $1;
}
| interpolation_qualifier {
    // allow inheritance of storage qualifier from block declaration
    $$ = $1;
}
| invariant_qualifier {
    // allow inheritance of storage qualifier from block declaration
    $$ = $1;
}
| precise_qualifier {
    // allow inheritance of storage qualifier from block declaration
    $$ = $1;
}
;

storage_qualifier
: CONST {
    $$init($1.loc);
    $$qualifier.storage = EvqConst; // will later turn into EvqConstReadOnly, if the initializer is not constant
}
| ATTRIBUTE {
    parseContext.requireStage($1.loc, EShLangVertex, "attribute");
    parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "attribute");
    parseContext.checkDeprecated($1.loc, ENoProfile, 130, "attribute");
    parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "attribute");
    parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "attribute");

    parseContext.globalCheck($1.loc, "attribute");
}

```

```

    $$.$init($1.loc);
    $$.$qualifier.storage = EvqVaryingIn;
}
| VARYING {
    parseContext.checkDeprecated($1.loc, ENoProfile, 130, "varying");
    parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "varying");
    parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "varying");
    parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "varying");

    parseContext.globalCheck($1.loc, "varying");

    $$.$init($1.loc);
    if (parseContext.language == EShLangVertex)
        $$.$qualifier.storage = EvqVaryingOut;
    else
        $$.$qualifier.storage = EvqVaryingIn;
}
| INOUT {
    parseContext.globalCheck($1.loc, "inout");
    $$.$init($1.loc);
    $$.$qualifier.storage = EvqInOut;
}
| IN {
    parseContext.globalCheck($1.loc, "in");
    $$.$init($1.loc);
    // whether this is a parameter "in" or a pipeline "in" will get sorted out a bit later
    $$.$qualifier.storage = EvqIn;
}
| OUT {
    parseContext.globalCheck($1.loc, "out");
    $$.$init($1.loc);
    // whether this is a parameter "out" or a pipeline "out" will get sorted out a bit later
    $$.$qualifier.storage = EvqOut;
}
| CENTROID {
    parseContext.profileRequires($1.loc, ENoProfile, 120, 0, "centroid");
    parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "centroid");
    parseContext.globalCheck($1.loc, "centroid");
    $$.$init($1.loc);
    $$.$qualifier.centroid = true;
}
| PATCH {
    parseContext.globalCheck($1.loc, "patch");
    parseContext.requireStage($1.loc, (EShLanguageMask)(EShLangTessControlMask |
EShLangTessEvaluationMask), "patch");
    $$.$init($1.loc);
    $$.$qualifier.patch = true;
}
}

```

```

| SAMPLE {
    parseContext.globalCheck($1.loc, "sample");
    $$init($1.loc);
    $$qualifier.sample = true;
}
| UNIFORM {
    parseContext.globalCheck($1.loc, "uniform");
    $$init($1.loc);
    $$qualifier.storage = EvqUniform;
}
| BUFFER {
    parseContext.globalCheck($1.loc, "buffer");
    $$init($1.loc);
    $$qualifier.storage = EvqBuffer;
}
| SHARED {
    parseContext.globalCheck($1.loc, "shared");
    parseContext.profileRequires($1.loc, ECoreProfile | ECompatibilityProfile, 430, E_GL_ARB_compute_shader,
"shared");
    parseContext.profileRequires($1.loc, EEsProfile, 310, 0, "shared");
    parseContext.requireStage($1.loc, EShLangCompute, "shared");
    $$init($1.loc);
    $$qualifier.storage = EvqShared;
}
| COHERENT {
    $$init($1.loc);
    $$qualifier.coherent = true;
}
| VOLATILE {
    $$init($1.loc);
    $$qualifier.volatil = true;
}
| RESTRICT {
    $$init($1.loc);
    $$qualifier.restrict = true;
}
| READONLY {
    $$init($1.loc);
    $$qualifier.readonly = true;
}
| WRITEONLY {
    $$init($1.loc);
    $$qualifier.writeonly = true;
}
| SUBROUTINE {
    parseContext.spvRemoved($1.loc, "subroutine");
    parseContext.globalCheck($1.loc, "subroutine");
    parseContext.unimplemented($1.loc, "subroutine");
}

```

```

    $$.$init($1.loc);
}
| SUBROUTINE LEFT_PAREN type_name_list RIGHT_PAREN {
    parseContext.spvRemoved($1.loc, "subroutine");
    parseContext.globalCheck($1.loc, "subroutine");
    parseContext.unimplemented($1.loc, "subroutine");
    $$.$init($1.loc);
}
;

type_name_list
: IDENTIFIER {
    // TODO
}
| type_name_list COMMA IDENTIFIER {
    // TODO: 4.0 semantics: subroutines
    // 1) make sure each identifier is a type declared earlier with SUBROUTINE
    // 2) save all of the identifiers for future comparison with the declared function
}
;

type_specifier
: type_specifier_nonarray {
    $$ = $1;
    $$.$qualifier.precision = parseContext.getDefaultPrecision($$);
}
| type_specifier_nonarray array_specifier {
    parseContext.arrayDimCheck($2.loc, $2.arraySizes, 0);
    $$ = $1;
    $$.$qualifier.precision = parseContext.getDefaultPrecision($$);
    $$.$arraySizes = $2.arraySizes;
}
;

array_specifier
: LEFT_BRACKET RIGHT_BRACKET {
    $$.$loc = $1.loc;
    $$.$arraySizes = new TArraySizes;
    $$.$arraySizes->addInnerSize();
}
| LEFT_BRACKET conditional_expression RIGHT_BRACKET {
    $$.$loc = $1.loc;
    $$.$arraySizes = new TArraySizes;

    TArraySize size;
    parseContext.arraySizeCheck($2->getLoc(), $2, size);
    $$.$arraySizes->addInnerSize(size);
}

```

```

| array_specifier LEFT_BRACKET RIGHT_BRACKET {
    $$ = $1;
    $$.arraySizes->addInnerSize();
}
| array_specifier LEFT_BRACKET conditional_expression RIGHT_BRACKET {
    $$ = $1;

    TArraySize size;
    parseContext.arraySizeCheck($3->getLoc(), $3, size);
    $$.arraySizes->addInnerSize(size);
}
;

type_specifier_nonarray
: VOID {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtVoid;
}
| FLOAT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
}
| DOUBLE {
    parseContext.doubleCheck($1.loc, "double");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
}
| FLOAT16_T {
    parseContext.float16Check($1.loc, "float16_t", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
}
| FLOAT32_T {
    parseContext.explicitFloat32Check($1.loc, "float32_t", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
}
| FLOAT64_T {
    parseContext.explicitFloat64Check($1.loc, "float64_t", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
}
| INT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
}
| UINT {
    parseContext.fullIntegerCheck($1.loc, "unsigned integer");
}

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
}
| INT8_T {
    parseContext.explicitInt8Check($1.loc, "8-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt8;
}
| UINT8_T {
    parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt8;
}
| INT16_T {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt16;
}
| UINT16_T {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt16;
}
| INT32_T {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
}
| UINT32_T {
    parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
}
| INT64_T {
    parseContext.int64Check($1.loc, "64-bit integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt64;
}
| UINT64_T {
    parseContext.int64Check($1.loc, "64-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt64;
}
| BOOL {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtBool;
}

```

```

}
| VEC2 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(2);
}
| VEC3 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(3);
}
| VEC4 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(4);
}
| DVEC2 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(2);
}
| DVEC3 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(3);
}
| DVEC4 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(4);
}
| F16VEC2 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setVector(2);
}
| F16VEC3 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setVector(3);
}
| F16VEC4 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setVector(4);
}
| F32VEC2 {
    parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(2);
}
| F32VEC3 {
    parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(3);
}
| F32VEC4 {
    parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(4);
}
| F64VEC2 {
    parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(2);
}
| F64VEC3 {
    parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(3);
}
| F64VEC4 {
    parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(4);
}
| BVEC2 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtBool;
    $$.$setVector(2);
}
| BVEC3 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtBool;

```



```

    $$.setVector(3);
}
| BVEC4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtBool;
    $$.setVector(4);
}
| IVEC2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt;
    $$.setVector(2);
}
| IVEC3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt;
    $$.setVector(3);
}
| IVEC4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt;
    $$.setVector(4);
}
| I8VEC2 {
    parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt8;
    $$.setVector(2);
}
| I8VEC3 {
    parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt8;
    $$.setVector(3);
}
| I8VEC4 {
    parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt8;
    $$.setVector(4);
}
| I16VEC2 {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt16;
    $$.setVector(2);
}
| I16VEC3 {

```

```

    parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt16;
    $$.$setVector(3);
}
| I16VEC4 {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt16;
    $$.$setVector(4);
}
| I32VEC2 {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
    $$.$setVector(2);
}
| I32VEC3 {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
    $$.$setVector(3);
}
| I32VEC4 {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
    $$.$setVector(4);
}
| I64VEC2 {
    parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt64;
    $$.$setVector(2);
}
| I64VEC3 {
    parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt64;
    $$.$setVector(3);
}
| I64VEC4 {
    parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt64;
    $$.$setVector(4);
}
| UVEC2 {
    parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
    $$.$setVector(2);
}
| UVEC3 {
    parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
    $$.$setVector(3);
}
| UVEC4 {
    parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
    $$.$setVector(4);
}
| U8VEC2 {
    parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt8;
    $$.$setVector(2);
}
| U8VEC3 {
    parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt8;
    $$.$setVector(3);
}
| U8VEC4 {
    parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt8;
    $$.$setVector(4);
}
| U16VEC2 {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt16;

```

```

    $$.setVector(2);
}
| U16VEC3 {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint16;
    $$.setVector(3);
}
| U16VEC4 {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint16;
    $$.setVector(4);
}
| U32VEC2 {
    parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint;
    $$.setVector(2);
}
| U32VEC3 {
    parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint;
    $$.setVector(3);
}
| U32VEC4 {
    parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint;
    $$.setVector(4);
}
| U64VEC2 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint64;
    $$.setVector(2);
}
| U64VEC3 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint64;
    $$.setVector(3);
}

```

```

}
| U64VEC4 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUint64;
    $$.$setVector(4);
}
| MAT2 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(2, 2);
}
| MAT3 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(3, 3);
}
| MAT4 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 4);
}
| MAT2X2 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(2, 2);
}
| MAT2X3 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(2, 3);
}
| MAT2X4 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(2, 4);
}
| MAT3X2 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(3, 2);
}
| MAT3X3 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(3, 3);
}
| MAT3X4 {

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(3, 4);
}
| MAT4X2 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 2);
}
| MAT4X3 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 3);
}
| MAT4X4 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 4);
}
| DMAT2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 2);
}
| DMAT3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(3, 3);
}
| DMAT4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(4, 4);
}
| DMAT2X2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 2);
}
| DMAT2X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 3);
}

```

```

}
| DMAT2X4 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(2, 4);
}
| DMAT3X2 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(3, 2);
}
| DMAT3X3 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(3, 3);
}
| DMAT3X4 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(3, 4);
}
| DMAT4X2 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(4, 2);
}
| DMAT4X3 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(4, 3);
}
| DMAT4X4 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(4, 4);
}
| F16MAT2 {
  parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtFloat16;
  $$.$setMatrix(2, 2);
}

```

```

}
| F16MAT3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(3, 3);
}
| F16MAT4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(4, 4);
}
| F16MAT2X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(2, 2);
}
| F16MAT2X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(2, 3);
}
| F16MAT2X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(2, 4);
}
| F16MAT3X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(3, 2);
}
| F16MAT3X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(3, 3);
}
| F16MAT3X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(3, 4);
}

```



```

}
| F16MAT4X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(4, 2);
}
| F16MAT4X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(4, 3);
}
| F16MAT4X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(4, 4);
}
| F32MAT2 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(2, 2);
}
| F32MAT3 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(3, 3);
}
| F32MAT4 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 4);
}
| F32MAT2X2 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(2, 2);
}
| F32MAT2X3 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(2, 3);
}

```

```

}
| F32MAT2X4 {
  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtFloat;
  $$.$setMatrix(2, 4);
}
| F32MAT3X2 {
  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtFloat;
  $$.$setMatrix(3, 2);
}
| F32MAT3X3 {
  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtFloat;
  $$.$setMatrix(3, 3);
}
| F32MAT3X4 {
  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtFloat;
  $$.$setMatrix(3, 4);
}
| F32MAT4X2 {
  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtFloat;
  $$.$setMatrix(4, 2);
}
| F32MAT4X3 {
  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtFloat;
  $$.$setMatrix(4, 3);
}
| F32MAT4X4 {
  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtFloat;
  $$.$setMatrix(4, 4);
}
| F64MAT2 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(2, 2);
}

```

```

}
| F64MAT3 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(3, 3);
}
| F64MAT4 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(4, 4);
}
| F64MAT2X2 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(2, 2);
}
| F64MAT2X3 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(2, 3);
}
| F64MAT2X4 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(2, 4);
}
| F64MAT3X2 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(3, 2);
}
| F64MAT3X3 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(3, 3);
}
| F64MAT3X4 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(3, 4);
}

```

```

}
| F64MAT4X2 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(4, 2);
}
| F64MAT4X3 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(4, 3);
}
| F64MAT4X4 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtDouble;
  $$.$setMatrix(4, 4);
}
| ATOMIC_UINT {
  parseContext.vulkanRemoved($1.loc, "atomic counter types");
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtAtomicUint;
}
| SAMPLER1D {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.set(EbtFloat, Esd1D);
}
| SAMPLER2D {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.set(EbtFloat, Esd2D);
}
| SAMPLER3D {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.set(EbtFloat, Esd3D);
}
| SAMPLERCUBE {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.set(EbtFloat, EsdCube);
}
| SAMPLER1DSHADOW {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.set(EbtFloat, Esd1D, false, true);
}

```

```

}
| SAMPLER2DSHADOW {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd2D, false, true);
}
| SAMPLERCUBESHADOW {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, EsdCube, false, true);
}
| SAMPLER1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd1D, true);
}
| SAMPLER2DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd2D, true);
}
| SAMPLER1DARRAYSHADOW {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd1D, true, true);
}
| SAMPLER2DARRAYSHADOW {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd2D, true, true);
}
| SAMPLERCUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, EsdCube, true);
}
| SAMPLERCUBEARRAYSHADOW {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, EsdCube, true, true);
}
| F16SAMPLER1D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd1D);
#endif
}

```

```

}
| F16SAMPLER2D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D);
#endif
}
| F16SAMPLER3D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd3D);
#endif
}
| F16SAMPLERCUBE {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, EsdCube);
#endif
}
| F16SAMPLER1DSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd1D, false, true);
#endif
}
| F16SAMPLER2DSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D, false, true);
#endif
}
| F16SAMPLERCUBESHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, EsdCube, false, true);
#endif
}

```

```

}
| F16SAMPLER1DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd1D, true);
#endif
}
| F16SAMPLER2DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D, true);
#endif
}
| F16SAMPLER1DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd1D, true, true);
#endif
}
| F16SAMPLER2DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D, true, true);
#endif
}
| F16SAMPLERCUBEARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, EsdCube, true);
#endif
}
| F16SAMPLERCUBEARRAYSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, EsdCube, true, true);
#endif
}

```

```

}
| ISAMPLER1D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd1D);
}
| ISAMPLER2D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd2D);
}
| ISAMPLER3D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd3D);
}
| ISAMPLERCUBE {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, EsdCube);
}
| ISAMPLER1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd1D, true);
}
| ISAMPLER2DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd2D, true);
}
| ISAMPLERCUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, EsdCube, true);
}
| USAMPLER1D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtUInt, Esd1D);
}
| USAMPLER2D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtUInt, Esd2D);
}
| USAMPLER3D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```



```

    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, Esd3D);
}
| USAMPLERCUBE {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, EsdCube);
}
| USAMPLER1DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, Esd1D, true);
}
| USAMPLER2DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, Esd2D, true);
}
| USAMPLERCUBEARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, EsdCube, true);
}
| SAMPLER2DRECT {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, EsdRect);
}
| SAMPLER2DRECTSHADOW {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, EsdRect, false, true);
}
| F16SAMPLER2DRECT {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdRect);
#endif
}
| F16SAMPLER2DRECTSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdRect, false, true);
#endif
}

```

```

}
| ISAMPLER2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, EsdRect);
}
| USAMPLER2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtUint, EsdRect);
}
| SAMPLERBUFFER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, EsdBuffer);
}
| F16SAMPLERBUFFER {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, EsdBuffer);
#endif
}
| ISAMPLERBUFFER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, EsdBuffer);
}
| USAMPLERBUFFER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtUint, EsdBuffer);
}
| SAMPLER2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd2D, false, false, true);
}
| F16SAMPLER2DMS {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D, false, false, true);
#endif
}
| ISAMPLER2DMS {

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd2D, false, false, true);
}
| USAMPLER2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtUint, Esd2D, false, false, true);
}
| SAMPLER2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd2D, true, false, true);
}
| F16SAMPLER2DMSARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D, true, false, true);
#endif
}
| ISAMPLER2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd2D, true, false, true);
}
| USAMPLER2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtUint, Esd2D, true, false, true);
}
| SAMPLER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setPureSampler(false);
}
| SAMPLERSHADOW {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setPureSampler(true);
}
| TEXTURE1D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd1D);
}
| F16TEXTURE1D {

```

```

#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd1D);
#endif
}
| TEXTURE2D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd2D);
}
| F16TEXTURE2D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd2D);
#endif
}
| TEXTURE3D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd3D);
}
| F16TEXTURE3D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd3D);
#endif
}
| TEXTURECUBE {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, EsdCube);
}
| F16TEXTURECUBE {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, EsdCube);
#endif
}
| TEXTURE1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
}

```

```

    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtFloat, Esd1D, true);
}
| F16TEXTURE1DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtFloat16, Esd1D, true);
#endif
}
| TEXTURE2DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtFloat, Esd2D, true);
}
| F16TEXTURE2DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtFloat16, Esd2D, true);
#endif
}
| TEXTURECUBEARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtFloat, EsdCube, true);
}
| F16TEXTURECUBEARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtFloat16, EsdCube, true);
#endif
}
| ITEXTURE1D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtInt, Esd1D);
}
| ITEXTURE2D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtInt, Esd2D);
}
| ITEXTURE3D {

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, Esd3D);
}
| ITEXTURECUBE {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, EsdCube);
}
| ITEXTURE1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, Esd1D, true);
}
| ITEXTURE2DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, Esd2D, true);
}
| ITEXTURECUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, EsdCube, true);
}
| UTEXTURE1D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUInt, Esd1D);
}
| UTEXTURE2D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUInt, Esd2D);
}
| UTEXTURE3D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUInt, Esd3D);
}
| UTEXTURECUBE {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUInt, EsdCube);
}
| UTEXTURE1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUInt, Esd1D, true);
}

```

```

}
| UTEXTURE2DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, Esd2D, true);
}
| UTEXTURECUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, EsdCube, true);
}
| TEXTURE2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, EsdRect);
}
| F16TEXTURE2DRECT {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, EsdRect);
#endif
}
| ITEXTURE2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, EsdRect);
}
| UTEXTURE2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, EsdRect);
}
| TEXTUREBUFFER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, EsdBuffer);
}
| F16TEXTUREBUFFER {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, EsdBuffer);
#endif
}
| ITEXTUREBUFFER {

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, EsdBuffer);
}
| UTEXTUREBUFFER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, EsdBuffer);
}
| TEXTURE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd2D, false, false, true);
}
| F16TEXTURE2DMS {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd2D, false, false, true);
#endif
}
| ITEXTURE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, Esd2D, false, false, true);
}
| UTEXTURE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, Esd2D, false, false, true);
}
| TEXTURE2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd2D, true, false, true);
}
| F16TEXTURE2DMSARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd2D, true, false, true);
#endif
}
| ITEXTURE2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;

```



```

    $$sampler.setTexture(EbtInt, Esd2D, true, false, true);
}
| UTEXTURE2DMSARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtUint, Esd2D, true, false, true);
}
| IMAGE1D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, Esd1D);
}
| F16IMAGE1D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, Esd1D);
#endif
}
| IIMAGE1D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd1D);
}
| UIMAGE1D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd1D);
}
| IMAGE2D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, Esd2D);
}
| F16IMAGE2D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, Esd2D);
#endif
}
| IIMAGE2D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd2D);
}
}

```

```

| UIMAGE2D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd2D);
}
| IMAGE3D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, Esd3D);
}
| F16IMAGE3D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, Esd3D);
#endif
}
| IIMAGE3D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd3D);
}
| UIMAGE3D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd3D);
}
| IMAGE2DRECT {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, EsdRect);
}
| F16IMAGE2DRECT {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, EsdRect);
#endif
}
| IIMAGE2DRECT {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, EsdRect);
}
| UIMAGE2DRECT {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, EsdRect);
}
| IMAGECUBE {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, EsdCube);
}
| F16IMAGECUBE {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, EsdCube);
#endif
}
| IIMAGECUBE {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, EsdCube);
}
| UIMAGECUBE {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, EsdCube);
}
| IMAGEBUFFER {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, EsdBuffer);
}
| F16IMAGEBUFFER {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, EsdBuffer);
#endif
}
| IIMAGEBUFFER {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, EsdBuffer);
}
| UIMAGEBUFFER {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, EsdBuffer);
}

```

```

}
| IMAGE1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat, Esd1D, true);
}
| F16IMAGE1DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat16, Esd1D, true);
#endif
}
| IIMAGE1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtInt, Esd1D, true);
}
| UIMAGE1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtUint, Esd1D, true);
}
| IMAGE2DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat, Esd2D, true);
}
| F16IMAGE2DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat16, Esd2D, true);
#endif
}
| IIMAGE2DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtInt, Esd2D, true);
}
| UIMAGE2DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtUint, Esd2D, true);
}
| IMAGECUBEARRAY {

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat, EsdCube, true);
}
| F16IMAGECUBEARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat16, EsdCube, true);
#endif
}
| IIMAGECUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtInt, EsdCube, true);
}
| UIMAGECUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtUint, EsdCube, true);
}
| IMAGE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat, Esd2D, false, false, true);
}
| F16IMAGE2DMS {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat16, Esd2D, false, false, true);
#endif
}
| IIMAGE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtInt, Esd2D, false, false, true);
}
| UIMAGE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtUint, Esd2D, false, false, true);
}
| IMAGE2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;

```

```

    $$sampler.setImage(EbtFloat, Esd2D, true, false, true);
}
| F16IMAGE2DMSARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, Esd2D, true, false, true);
#endif
}
| IIMAGE2DMSARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd2D, true, false, true);
}
| UIMAGE2DMSARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd2D, true, false, true);
}
| SAMPLEREXTERNALOES { // GL_OES_EGL_image_external
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, Esd2D);
    $$sampler.external = true;
}
| SUBPASSINPUT {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setSubpass(EbtFloat);
}
| SUBPASSINPUTMS {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setSubpass(EbtFloat, true);
}
| F16SUBPASSINPUT {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setSubpass(EbtFloat16);
#endif
}
}

```

```

| F16SUBPASSINPUTMS {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtFloat16, true);
#endif
}
| ISUBPASSINPUT {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtInt);
}
| ISUBPASSINPUTMS {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtInt, true);
}
| USUBPASSINPUT {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtUInt);
}
| USUBPASSINPUTMS {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtUInt, true);
}
| struct_specifier {
    $$ = $1;
    $$.$qualifier.storage = parseContext.symbolTable.atGlobalLevel() ? EvqGlobal : EvqTemporary;
    parseContext.structTypeCheck($$.loc, $$);
}
| TYPE_NAME {
    //
    // This is for user defined type names. The lexical phase looked up the
    // type.
    //
    if (const TVariable* variable = ($1.symbol)->getAsVariable()) {
        const TType& structure = variable->getType();
        $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.$basicType = EbtStruct;
    }
}

```

```

    $$userDef = &structure;
} else
    parseContext.error($1.loc, "expected type name", $1.string->c_str(), "");
}
;

precision_qualifier
: HIGH_PRECISION {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "highp precision qualifier");
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    parseContext.handlePrecisionQualifier($1.loc, $$qualifier, EpqHigh);
}
| MEDIUM_PRECISION {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "mediump precision qualifier");
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    parseContext.handlePrecisionQualifier($1.loc, $$qualifier, EpqMedium);
}
| LOW_PRECISION {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "lowp precision qualifier");
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    parseContext.handlePrecisionQualifier($1.loc, $$qualifier, EpqLow);
}
;

struct_specifier
: STRUCT IDENTIFIER LEFT_BRACE { parseContext.nestedStructCheck($1.loc); } struct_declaration_list
RIGHT_BRACE {
    TType* structure = new TType($5, *$2.string);
    parseContext.structArrayCheck($2.loc, *structure);
    TVariable* userTypeDef = new TVariable($2.string, *structure, true);
    if (! parseContext.symbolTable.insert(*userTypeDef))
        parseContext.error($2.loc, "redefinition", $2.string->c_str(), "struct");
    $$init($1.loc);
    $$basicType = EbtStruct;
    $$userDef = structure;
    --parseContext.structNestingLevel;
}
| STRUCT LEFT_BRACE { parseContext.nestedStructCheck($1.loc); } struct_declaration_list RIGHT_BRACE {
    TType* structure = new TType($4, TString(""));
    $$init($1.loc);
    $$basicType = EbtStruct;
    $$userDef = structure;
    --parseContext.structNestingLevel;
}
;

struct_declaration_list
: struct_declaration {

```



```

    $$ = $1;
}
| struct_declaration_list struct_declaration {
    $$ = $1;
    for (unsigned int i = 0; i < $2->size(); ++i) {
        for (unsigned int j = 0; j < $$->size(); ++j) {
            if ((*$$)[j].type->getFieldName() == (*$2)[i].type->getFieldName())
                parseContext.error((*$2)[i].loc, "duplicate member name:", "", (*$2)[i].type->getFieldName().c_str());
        }
        $$->push_back((*$2)[i]);
    }
}
;

```

struct\_declaration

```

: type_specifier struct_declarator_list SEMICOLON {
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        if (parseContext.profile == EEsProfile)
            parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }

    $$ = $2;

    parseContext.voidErrorCheck($1.loc, (*$2)[0].type->getFieldName(), $1.basicType);
    parseContext.precisionQualifierCheck($1.loc, $1.basicType, $1.qualifier);

    for (unsigned int i = 0; i < $$->size(); ++i) {
        parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $1.arraySizes);
        (*$$)[i].type->mergeType($1);
    }
}
| type_qualifier type_specifier struct_declarator_list SEMICOLON {
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    if ($2.arraySizes) {
        parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
        if (parseContext.profile == EEsProfile)
            parseContext.arraySizeRequiredCheck($2.loc, *$2.arraySizes);
    }

    $$ = $3;

    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.voidErrorCheck($2.loc, (*$3)[0].type->getFieldName(), $2.basicType);
    parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
    parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);
}

```

```

    for (unsigned int i = 0; i < $$->size(); ++i) {
        parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $2.arraySizes);
        (*$$)[i].type->mergeType($2);
    }
}
;

struct_declarator_list
: struct_declarator {
    $$ = new TTypeList;
    $$->push_back($1);
}
| struct_declarator_list COMMA struct_declarator {
    $$->push_back($3);
}
;

struct_declarator
: IDENTIFIER {
    $$ .type = new TType(EbtVoid);
    $$ .loc = $1.loc;
    $$ .type->setFieldName(*$1.string);
}
| IDENTIFIER array_specifier {
    parseContext.arrayDimCheck($1.loc, $2.arraySizes, 0);

    $$ .type = new TType(EbtVoid);
    $$ .loc = $1.loc;
    $$ .type->setFieldName(*$1.string);
    $$ .type->newArraySizes(*$2.arraySizes);
}
;

initializer
: assignment_expression {
    $$ = $1;
}
| LEFT_BRACE initializer_list RIGHT_BRACE {
    const char* initFeature = "{ } style initializers";
    parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
    parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
    $$ = $2;
}
| LEFT_BRACE initializer_list COMMA RIGHT_BRACE {
    const char* initFeature = "{ } style initializers";
    parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
    parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
}

```

```

    $$ = $2;
}
;

initializer_list
: initializer {
    $$ = parseContext.intermediate.growAggregate(0, $1, $1->getLoc());
}
| initializer_list COMMA initializer {
    $$ = parseContext.intermediate.growAggregate($1, $3);
}
;

declaration_statement
: declaration { $$ = $1; }
;

statement
: compound_statement { $$ = $1; }
| simple_statement { $$ = $1; }
;

// Grammar Note: labeled statements for switch statements only; 'goto' is not supported.

simple_statement
: declaration_statement { $$ = $1; }
| expression_statement { $$ = $1; }
| selection_statement { $$ = $1; }
| switch_statement { $$ = $1; }
| case_label { $$ = $1; }
| iteration_statement { $$ = $1; }
| jump_statement { $$ = $1; }
;

compound_statement
: LEFT_BRACE RIGHT_BRACE { $$ = 0; }
| LEFT_BRACE {
    parseContext.symbolTable.push();
    ++parseContext.statementNestingLevel;
}
statement_list {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    --parseContext.statementNestingLevel;
}
RIGHT_BRACE {
    if ($3 && $3->getAsAggregate())
        $3->getAsAggregate()->setOperator(EOpSequence);
    $$ = $3;
}

```

```

}
;

statement_no_new_scope
: compound_statement_no_new_scope { $$ = $1; }
| simple_statement      { $$ = $1; }
;

statement_scoped
: {
  ++parseContext.controlFlowNestingLevel;
}
compound_statement {
  --parseContext.controlFlowNestingLevel;
  $$ = $2;
}
| {
  parseContext.symbolTable.push();
  ++parseContext.statementNestingLevel;
  ++parseContext.controlFlowNestingLevel;
}
simple_statement {
  parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
  --parseContext.statementNestingLevel;
  --parseContext.controlFlowNestingLevel;
  $$ = $2;
}

compound_statement_no_new_scope
// Statement that doesn't create a new scope, for selection_statement, iteration_statement
: LEFT_BRACE RIGHT_BRACE {
  $$ = 0;
}
| LEFT_BRACE statement_list RIGHT_BRACE {
  if ($2 && $2->getAsAggregate())
    $2->getAsAggregate()->setOperator(EOpSequence);
  $$ = $2;
}
;

statement_list
: statement {
  $$ = parseContext.intermediate.makeAggregate($1);
  if ($1 && $1->getAsBranchNode() && ($1->getAsBranchNode()->getFlowOp() == EOpCase ||
    $1->getAsBranchNode()->getFlowOp() == EOpDefault)) {
    parseContext.wrapupSwitchSubsequence(0, $1);
    $$ = 0; // start a fresh subsequence for what's after this case
  }
}

```

```

}
| statement_list statement {
    if ($$ && $2->getAsBranchNode() && ($2->getAsBranchNode()->getFlowOp() == EOpCase ||
        $2->getAsBranchNode()->getFlowOp() == EOpDefault)) {
        parseContext.wrapupSwitchSubsequence($1 ? $1->getAsAggregate() : 0, $2);
        $$ = 0; // start a fresh subsequence for what's after this case
    } else
        $$ = parseContext.intermediate.growAggregate($1, $2);
}
;

expression_statement
: SEMICOLON { $$ = 0; }
| expression SEMICOLON { $$ = static_cast<TIntermNode*>($1); }
;

selection_statement
: selection_statement_nonattributed {
    $$ = $1;
}
| attribute selection_statement_nonattributed {
    parseContext.handleSelectionAttributes(*$1, $2);
    $$ = $2;
}

selection_statement_nonattributed
: IF LEFT_PAREN expression RIGHT_PAREN selection_rest_statement {
    parseContext.boolCheck($1.loc, $3);
    $$ = parseContext.intermediate.addSelection($3, $5, $1.loc);
}
;

selection_rest_statement
: statement_scoped ELSE statement_scoped {
    $$ .node1 = $1;
    $$ .node2 = $3;
}
| statement_scoped {
    $$ .node1 = $1;
    $$ .node2 = 0;
}
;

condition
// In 1996 c++ draft, conditions can include single declarations
: expression {
    $$ = $1;
    parseContext.boolCheck($1->getLoc(), $1);
}
;

```

```

}
| fully_specified_type IDENTIFIER EQUAL initializer {
    parseContext.boolCheck($2.loc, $1);

    TType type($1);
    TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
    if (initNode)
        $$ = initNode->getAsTyped();
    else
        $$ = 0;
}
;

switch_statement
: switch_statement_nonattributed {
    $$ = $1;
}
| attribute switch_statement_nonattributed {
    parseContext.handleSwitchAttributes(*$1, $2);
    $$ = $2;
}

switch_statement_nonattributed
: SWITCH LEFT_PAREN expression RIGHT_PAREN {
    // start new switch sequence on the switch stack
    ++parseContext.controlFlowNestingLevel;
    ++parseContext.statementNestingLevel;
    parseContext.switchSequenceStack.push_back(new TIntermSequence);
    parseContext.switchLevel.push_back(parseContext.statementNestingLevel);
    parseContext.symbolTable.push();
}
LEFT_BRACE switch_statement_list RIGHT_BRACE {
    $$ = parseContext.addSwitch($1.loc, $3, $7 ? $7->getAsAggregate() : 0);
    delete parseContext.switchSequenceStack.back();
    parseContext.switchSequenceStack.pop_back();
    parseContext.switchLevel.pop_back();
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
}
;

switch_statement_list
: /* nothing */ {
    $$ = 0;
}
| statement_list {
    $$ = $1;
}

```

```

}
;

case_label
: CASE expression COLON {
    $$ = 0;
    if (parseContext.switchLevel.size() == 0)
        parseContext.error($1.loc, "cannot appear outside switch statement", "case", "");
    else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
        parseContext.error($1.loc, "cannot be nested inside control flow", "case", "");
    else {
        parseContext.constantValueCheck($2, "case");
        parseContext.integerCheck($2, "case");
        $$ = parseContext.intermediate.addBranch(EOpCase, $2, $1.loc);
    }
}
| DEFAULT COLON {
    $$ = 0;
    if (parseContext.switchLevel.size() == 0)
        parseContext.error($1.loc, "cannot appear outside switch statement", "default", "");
    else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
        parseContext.error($1.loc, "cannot be nested inside control flow", "default", "");
    else
        $$ = parseContext.intermediate.addBranch(EOpDefault, $1.loc);
}
;

iteration_statement
: iteration_statement_nonattributed {
    $$ = $1;
}
| attribute iteration_statement_nonattributed {
    parseContext.handleLoopAttributes(*$1, $2);
    $$ = $2;
}

iteration_statement_nonattributed
: WHILE LEFT_PAREN {
    if (! parseContext.limits.whileLoops)
        parseContext.error($1.loc, "while loops not available", "limitation", "");
    parseContext.symbolTable.push();
    ++parseContext.loopNestingLevel;
    ++parseContext.statementNestingLevel;
    ++parseContext.controlFlowNestingLevel;
}
condition RIGHT_PAREN statement_no_new_scope {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    $$ = parseContext.intermediate.addLoop($6, $4, 0, true, $1.loc);
}

```

```

--parseContext.loopNestingLevel;
--parseContext.statementNestingLevel;
--parseContext.controlFlowNestingLevel;
}
| DO {
  ++parseContext.loopNestingLevel;
  ++parseContext.statementNestingLevel;
  ++parseContext.controlFlowNestingLevel;
}
statement WHILE LEFT_PAREN expression RIGHT_PAREN SEMICOLON {
  if (! parseContext.limits.whileLoops)
    parseContext.error($1.loc, "do-while loops not available", "limitation", "");

  parseContext.boolCheck($8.loc, $6);

  $$ = parseContext.intermediate.addLoop($3, $6, 0, false, $4.loc);
  --parseContext.loopNestingLevel;
  --parseContext.statementNestingLevel;
  --parseContext.controlFlowNestingLevel;
}
| FOR LEFT_PAREN {
  parseContext.symbolTable.push();
  ++parseContext.loopNestingLevel;
  ++parseContext.statementNestingLevel;
  ++parseContext.controlFlowNestingLevel;
}
for_init_statement for_rest_statement RIGHT_PAREN statement_no_new_scope {
  parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
  $$ = parseContext.intermediate.makeAggregate($4, $2.loc);
  TIntermLoop* forLoop = parseContext.intermediate.addLoop($7, reinterpret_cast<TIntermTyped*>($5.node1),
reinterpret_cast<TIntermTyped*>($5.node2), true, $1.loc);
  if (! parseContext.limits.nonInductiveForLoops)
    parseContext.inductiveLoopCheck($1.loc, $4, forLoop);
  $$ = parseContext.intermediate.growAggregate($$, forLoop, $1.loc);
  $$->getAsAggregate()->setOperator(EOpSequence);
  --parseContext.loopNestingLevel;
  --parseContext.statementNestingLevel;
  --parseContext.controlFlowNestingLevel;
}
;

for_init_statement
: expression_statement {
  $$ = $1;
}
| declaration_statement {
  $$ = $1;
}

```



```

;

conditionopt
: condition {
    $$ = $1;
}
| /* May be null */ {
    $$ = 0;
}
;

for_rest_statement
: conditionopt SEMICOLON {
    $$node1 = $1;
    $$node2 = 0;
}
| conditionopt SEMICOLON expression {
    $$node1 = $1;
    $$node2 = $3;
}
;

jump_statement
: CONTINUE SEMICOLON {
    if (parseContext.loopNestingLevel <= 0)
        parseContext.error($1.loc, "continue statement only allowed in loops", "", "");
    $$ = parseContext.intermediate.addBranch(EOpContinue, $1.loc);
}
| BREAK SEMICOLON {
    if (parseContext.loopNestingLevel + parseContext.switchSequenceStack.size() <= 0)
        parseContext.error($1.loc, "break statement only allowed in switch and loops", "", "");
    $$ = parseContext.intermediate.addBranch(EOpBreak, $1.loc);
}
| RETURN SEMICOLON {
    $$ = parseContext.intermediate.addBranch(EOpReturn, $1.loc);
    if (parseContext.currentFunctionType->getBasicType() != EbtVoid)
        parseContext.error($1.loc, "non-void function must return a value", "return", "");
    if (parseContext.inMain)
        parseContext.postEntryPointReturn = true;
}
| RETURN expression SEMICOLON {
    $$ = parseContext.handleReturnValue($1.loc, $2);
}
| DISCARD SEMICOLON {
    parseContext.requireStage($1.loc, EShLangFragment, "discard");
    $$ = parseContext.intermediate.addBranch(EOpKill, $1.loc);
}
;

```

// Grammar Note: No 'goto'. Gotos are not supported.

translation\_unit

```
: external_declaration {
    $$ = $1;
    parseContext.intermediate.setTreeRoot($$);
}
| translation_unit external_declaration {
    if ($2 != nullptr) {
        $$ = parseContext.intermediate.growAggregate($1, $2);
        parseContext.intermediate.setTreeRoot($$);
    }
}
;
```

external\_declaration

```
: function_definition {
    $$ = $1;
}
| declaration {
    $$ = $1;
}
| SEMICOLON {
    parseContext.requireProfile($1.loc, ~EEsProfile, "extraneous semicolon");
    parseContext.profileRequires($1.loc, ~EEsProfile, 460, nullptr, "extraneous semicolon");
    $$ = nullptr;
}
;
```

function\_definition

```
: function_prototype {
    $1.function = parseContext.handleFunctionDeclarator($1.loc, *$1.function, false /* not prototype */);
    $1.intermNode = parseContext.handleFunctionDefinition($1.loc, *$1.function);
}
compound_statement_no_new_scope {
    // May be best done as post process phase on intermediate code
    if (parseContext.currentFunctionType->getBasicType() != EbtVoid && ! parseContext.functionReturnsValue)
        parseContext.error($1.loc, "function does not return a value:", "", $1.function->getName().c_str());
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    $$ = parseContext.intermediate.growAggregate($1.intermNode, $3);
    parseContext.intermediate.setAggregateOperator($$, EOpFunction, $1.function->getType(), $1.loc);
    $$->getAsAggregate()->setName($1.function->getMangledName().c_str());

    // store the pragma information for debug and optimize and other vendor specific
    // information. This information can be queried from the parse tree
    $$->getAsAggregate()->setOptimize(parseContext.contextPragma.optimize);
    $$->getAsAggregate()->setDebug(parseContext.contextPragma.debug);
}
```

```

    $$->getAsAggregate()->setPragmaTable(parseContext.contextPragma.pragmaTable);
}
;

attribute
: LEFT_BRACKET LEFT_BRACKET attribute_list RIGHT_BRACKET RIGHT_BRACKET {
    $$ = $3;
    parseContext.requireExtensions($1.loc, 1, &E_GL_EXT_control_flow_attributes, "attribute");
}

attribute_list
: single_attribute {
    $$ = $1;
}
| attribute_list COMMA single_attribute {
    $$ = parseContext.mergeAttributes($1, $3);
}

single_attribute
: IDENTIFIER {
    $$ = parseContext.makeAttributes(*$1.string);
}
| IDENTIFIER LEFT_PAREN constant_expression RIGHT_PAREN {
    $$ = parseContext.makeAttributes(*$1.string, $3);
}

%%

```

Found in path(s):

```
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/glslang.y
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gz/KhronosGroup-glslang-5798d23/Test/versionsErrors.frag  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-glslang-5798d23/Test/versionsClean.vert  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-glslang-5798d23/Test/versionsClean.frag  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-  
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gz/KhronosGroup-glslang-5798d23/Test/sample.vert  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-  
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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/propagateNoContraction.h  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/gtests/Spv.FromFile.cpp  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/SPIRV/Logger.h  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/gtests/TestFixture.h  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/gtests/main.cpp  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/gtests/Settings.h  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/gtests/Initializer.h  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/StandAlone/ResourceLimits.h  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/gtests/Link.FromFile.cpp  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/SPIRV/Logger.cpp  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/gtests/BuiltInResource.FromFile.cpp  
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gz/KhronosGroup-gslang-5798d23/gtests/AST.FromFile.cpp  
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gz/KhronosGroup-gslang-5798d23/gtests/TestFixture.cpp  
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gz/KhronosGroup-gslang-5798d23/gtests/Config.FromFile.cpp  
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gz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/propagateNoContraction.cpp  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-gslang-5798d23/gtests/Link.FromFile.Vk.cpp
```

```
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gtests/Pp.FromFile.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gtests/Remap.FromFile.cpp
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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslAttributes.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslGrammar.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslScanContext.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslTokenStream.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/attribute.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslTokens.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslScanContext.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslTokenStream.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslOpMap.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslOpMap.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslAttributes.h
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# 1.299 jcmtturner-rpc 1.1.0

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## 1.304 xz 5.2.4 1ubuntu1.1

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Upstream-Contact:

Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

<https://tukaani.org/xz/lists.html>

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dos/config.h was generated with autoheader, which tells Autoconf to  
output a script to generate a config.h file and then runs it.

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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## 1.305 libmnl 1.0.4 2

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Version 2.1, February 1999

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-\*- org -\*-

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#+STARTUP: showall

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.307 gzip 1.6 5ubuntu1.1

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

## 1.308 boost 1\_52\_0

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## **1.309 stackexchange-wmi 0.0.0-20190523213315-cbe66965904d**

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## **1.310 animal-sniffer-annotation 1.14**

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```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/66" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="MobileOptimized" content="width" />
  <title>The MIT License | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

  <!--[if (lt IE 9)]>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ooglib" media="all" />
  <![endif]-->

  <!-- HTML5 element support for IE6-8 -->
  <!--[if lt IE 9]>
    <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
  <![endif]-->
  <script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
  <script type="text/javascript">
  <!--/--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![ ]>
</script>
  <script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
```

```

<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--><![CDATA[><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

  $("#toTop").click(function() {
    $("body,html").animate({scrollTop:0},800);
  });

});
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKAK2siiZU.js"></script>
<script type="text/javascript">
<!--><![CDATA[><!--
jQuery.extend(Drupal.settings,
{ "basePath":"", "pathPrefix":""," ajaxPageState":{"theme":"bootstrap_business", "theme_token":"s2vZViqeD3I9Fq1
EBk624uZGzbS0vJ_7HPPuTvDaaeA", "js":{"\\code.jquery.com/jquery-
1.10.2.min.js":1, "0":1, "misc/jquery.once.js":1, "misc/drupal.js":1, "\\maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js
/bootstrap.min.js":1, "1":1, "sites/all/libraries/superfish/jquery.hoverIntent.minified.js":1, "sites/all/libraries/supe
rfish/sftouchscreen.js":1, "sites/all/libraries/superfish/sfsmallscreen.js":1, "sites/all/libraries/superfish/suppositi
on.js":1, "sites/all/libraries/superfish/superfish.js":1, "sites/all/libraries/superfish/supersubs.js":1, "sites/all/mod
ules/superfish/superfish.js":1, "sites/all/themes/bootstrap-
business/js/jquery.browser.min.js":1 }, "css":{"modules/system/system.base.css":1, "modules/system/system.men
us.css":1, "modules/system/system.messages.css":1, "modules/system/system.theme.css":1, "modules/agggregator/
agggregator.css":1, "modules/comment/comment.css":1, "modules/field/theme/field.css":1, "sites/all/modules/mol
lom/mollom.css":1, "modules/node/node.css":1, "modules/search/search.css":1, "modules/user/user.css":1, "sites/
all/modules/views/css/views.css":1, "sites/all/modules/ctools/css/ctools.css":1, "\\maxcdn.bootstrapcdn.com/
bootstrap/3.2.0/css/bootstrap.min.css":1, "sites/all/libraries/superfish/css/superfish.css":1, "sites/all/themes/bo
otstrap-business/css/style.css":1, "sites/all/themes/bootstrap-
business/color/colors.css":1, "sites/all/themes/bootstrap-business/css/local.css":1, "sites/all/themes/bootstrap-
business/css/ie8.css":1 }}, "urlIsAjaxTrusted":{"\\licenses/mit-
license.php":true}, "superfish":{"1":{"id":"1", "sf":{"animation":{"opacity":"show", "height":"show"}, "speed":"\u002
7fast\u0027", "autoArrows":false, "dropShadows":true, "disableHI":false}, "plugins":{"touchscreen":{"mode":"windo
w_width"}, "smallscreen":{"mode":"window_width", "addSelected":false, "menuClasses":false, "hyperlinkClasses":fa
lse, "title":"Navigation"}, "supposition":true, "bgiframe":false, "supersubs":{"minWidth":"12", "maxWidth":"27", "extr
aWidth":1}}}}});
//--><![>

```



```

</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-66 node-type-page" >
  <div id="skip-link">
    <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
  </div>
  <div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

        <div class="col-md-8">
          <!-- #header-top-left -->
          <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
              <div id="block-menu-secondary-menu" class="block block-menu clearfix">

<div class="content">
  <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul> </div>
</div>
</div>
</div>
<!-- EOF:#header-top-left -->
</div>

        <div class="col-md-4">
          <!-- #header-top-right -->
          <div id="header-top-right" class="clearfix">
            <div class="region region-header-top-right">
              <div id="block-search-form" class="block block-search clearfix">

<div class="content">
  <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <h2 class="element-invisible">Search form</h2>

```

```

    <div class="form-item form-type-textfield form-item-search-block-form">
    <input onBlur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onFocus="if
    (this.value == &#039;Search this website...&#039;) { this.value = &#039;&#039;;}" type="text" id="edit-search-
    block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
    class="form-text" />
    </div>
    <div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
    name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
    3fdl1mgwpFzazdhVEs8DfK2cR3DKGD4vTlh3TguBqjQ" />
    <input type="hidden" name="form_id" value="search_block_form" />
    </div>
</div></form> </div>
</div>
</div>
    </div>
    <!-- EOF:#header-top-right -->
    </div>

    </div>
    </div>
    <!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">

    <!-- #header-inside -->
    <div id="header-inside" class="clearfix">
      <div class="row">
        <div class="col-md-8">

          <div id="logo">
            <a href="/" title="Home" rel="home">  </a>
          </div>

          <div id="site-name">
            <a href="/" title="Home">Open Source Initiative</a>
          </div>

        </div>

        <div class="col-md-4">

```

```

        </div>
    </div>
</div>
<!-- EOF: #header-inside -->

</div>
</header>
<!-- EOF: #header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
    <div class="container">

        <!-- #main-navigation-inside -->
        <div id="main-navigation-inside" class="clearfix">
            <div class="row">
                <div class="col-md-12">
                    <nav role="navigation">
                        <div class="region region-navigation">
<div id="block-superfish-1" class="block block-superfish clearfix">

<div class="content">
    <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-3">Organization & Operations</a></li><li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a href="/conflict_of_interest_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a><ul><li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines" title="OSI's Trademark Policy" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1"

```

class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for appearance and usage of OSI Logo" class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/ToS" title="Rules for posting content on this site" class="sf-depth-2">Terms of Service</a></li></ul></li><li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent"><a href="/licenses" class="sf-depth-1 menuparent">Licenses</a><ul><li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence" class="sf-depth-2 menuparent">Open Source Definition</a><ul><li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with explanations and rationale interspersed." class="sf-depth-3">OSD - Annotated</a></li></ul></li><li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/licenses/category" title="Licenses by Category" class="sf-depth-2">Licenses by Category</a></li><li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="/licenses/alphabetical" title="Licenses that are approved by the OSI as conforming to the OSD" class="sf-depth-2">Licenses by Name</a></li><li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/approval" title="Certifying licences as OSD-compliant" class="sf-depth-2 menuparent">License Review Process</a><ul><li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/proliferation" title="Supporting choice while maintaining sanity" class="sf-depth-3">Licence Proliferation</a></li><li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/proliferation-report" title="License Proliferation Committee's report to the OSI Board" class="sf-depth-3">LP report to the Board</a></li></ul></li><li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent"><a href="/osr-intro" title="Open Standards Requirement for Software" class="sf-depth-2 menuparent">Open Standards</a><ul><li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osr" title="An "open standard" must not prohibit conforming implementations in open source software." class="sf-depth-3">The Open Standards Requirement</a></li><li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/osr-compliance" class="sf-depth-3">Open Standards Requirement Compliance</a></li><li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/osr-rationale" class="sf-depth-3">Open Standards Requirement Rationale</a></li><li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children"><a href="/osr-faq" title="Frequently asked questions about the Open Standards Requirement" class="sf-depth-3">OSR Frequently Asked Questions</a></li></ul></li><li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent"><a href="/membership" title="Page for our various membership programs" class="sf-depth-1 menuparent">Membership</a><ul><li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent"><a href="/members" class="sf-depth-2 menuparent">Individuals</a><ul><li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/civicrm/contribute/transact?reset=1&id=1" title="" class="sf-depth-3">Join</a></li></ul></li><li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits and not-for-profits" class="sf-depth-2 menuparent">Affiliates</a><ul><li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/affiliates/about" class="sf-depth-3">Become an Affiliate</a></li><li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/affiliates/list" title="Full list of non-profits and not-for-profits affiliated to OSI" class="sf-depth-3">List of Affiliates</a></li><li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children"><a href="/AffiliateRequirements" class="sf-depth-3">Affiliate Criteria</a></li></ul></li><li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children"><a href="/sponsors" class="sf-depth-2">Sponsors & Support</a></li></ul></li><li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent"><a href="/community" title="Page for our various community members." class="sf-depth-1 menuparent">Community</a><ul><li id="menu-63-1" class="first odd sf-item-1 sf-

```

depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent"><a href="/lists" title="The virtual
committees where the OSI's work gets done" class="sf-depth-2 menuparent">Mailing lists</a><ul><li
id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/codeofconduct" title="Guidelines
for OSI Mailing Lists" class="sf-depth-3">General Code of Conduct</a></li><li id="menu-1072-1" class="middle
even sf-item-2 sf-depth-3 sf-no-children"><a href="/codeofconduct/licensing" class="sf-depth-3">Licensing Code
of Conduct</a></li><li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a
href="/public_forums_disclaimer" class="sf-depth-3">Disclaimer for OSI Public Forums</a></li><li id="menu-
2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children"><a href="/public_archives_policy" class="sf-depth-
3">Policy on Public Communications and Archives</a></li></ul></li><li id="menu-2032-1" class="middle even
sf-item-2 sf-depth-2 sf-no-children"><a href="/volunteers" class="sf-depth-2">Volunteers</a></li><li id="menu-
1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="http://wiki.opensource.org" title=""
class="sf-depth-2">Wiki</a></li><li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a
href="/store" class="sf-depth-2">OSI Store</a></li></ul></li><li id="menu-1840-1" class="middle odd sf-item-5
sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent"><a href="/resources"
title="Page offering resources to OSI personas" class="sf-depth-1 menuparent">Resources</a><ul><li id="menu-
342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/faq" title="Frequently Asked Questions
about open source and about the OSI." class="sf-depth-2">FAQ</a></li><li id="menu-38-1" class="middle even sf-
item-2 sf-depth-2 sf-no-children"><a href="/blog" title="A group blog / aggregation point for OSI Board Member
blogs" class="sf-depth-2">OSI Board Blog</a></li><li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-
total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/help" title="Resources for
questions and further exploration" class="sf-depth-2 menuparent">Getting Help</a><ul><li id="menu-76-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/links" title="Links and References to Open Source"
class="sf-depth-3">Bibliography</a></li><li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-
children"><a href="/advocacy/case_for_business.php" title="How to advocate Open Source to businesses"
class="sf-depth-3">Open Source Case for Business</a></li></ul></li><li id="menu-1514-1" class="middle even
sf-item-4 sf-depth-2 sf-no-children"><a href="/working_groups" class="sf-depth-2">Working Groups</a></li><li
id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children"><a href="/osi-open-source-education"
title="OSI's Open Source Education Initiative and Activities" class="sf-depth-2">Open Source
Education</a></li></ul></li><li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-
parent-children-0 sf-single-children-2 menuparent"><a href="/news" title="Page dedicated to the latest news and
events." class="sf-depth-1 menuparent">News & Events</a><ul><li id="menu-1845-1" class="first odd sf-item-1
sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of newsletters" class="sf-depth-
2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children"><a
href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>
</div>
</div>
</nav>
</div>
</div>
</div>
<!-- EOF: #main-navigation-inside -->
</div>
</div>
<!-- EOF: #main-navigation -->
<!-- #page -->

```

```

<div id="page" class="clearfix">

<!-- #main-content -->
<div id="main-content">
  <div class="container">

    <!-- #messages-console -->
      <!-- EOF: #messages-console -->

    <div class="row">

      <section class="col-md-12">

        <!-- #main -->
        <div id="main" class="clearfix">

          <!-- EOF:#content-wrapper -->
          <div id="content-wrapper">

            <h1 class="page-title">The MIT License</h1>

            <!-- #tabs -->
              <div class="tabs">
                </div>
              <!-- EOF: #tabs -->

            <!-- #action links -->
              <!-- EOF: #action links -->

            <div class="region region-content">
            <div id="block-system-main" class="block block-system clearfix">

            <div class="content">
            <article id="node-66" class="node node-page clearfix">

            <div class="content">
            <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: MIT
</p>

```

```
<div align="right">
<button onclick="myFunction()">Further resources on the <b>MIT License</b></button>
```

```
<p id="demo"></p>
```

```
<script>
```

```
<!--><![CDATA[// ><!--
```

```
function myFunction() {
```

```
    var x;
```

```
    if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it does not endorse any content, contributors or license interpretations from these websites. Any links to these resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor any of the mentioned resources, but instead provides them as separate third-party resource to help inform your opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
```

```
        x = "<br><p>The following are other community resources that may be helpful:<br><br><a href=https://tldrlegal.com/license/mit-license style='font-weight: bold;'>The MIT License on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a href=choosealicense.com>Choosealicense";
```

```
    } else {
```

```
        x = " ";
```

```
    }
```

```
    document.getElementById("demo").innerHTML = x;
```

```
}
```

```
//--><![>
```

```
</script></div>
```

```
<p>Copyright <YEAR> <COPYRIGHT HOLDER></p>
```

```
<p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p>
```

```
<p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p>
```

```
<p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>

</div></div></div> </div>

</article> </div>

</div>

</div>

</div>

<!-- EOF:#content-wrapper -->

</div>

<!-- EOF:#main -->

</section>

</div>

</div>

</div>

<!-- EOF:#main-content -->

</div>

<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">

<div class="container">

<!-- #subfooter-inside -->

<div id="subfooter-inside" class="clearfix">

<div class="row">

<div class="col-md-12">

<!-- #subfooter-left -->

<div class="subfooter-area">

<div class="region region-footer">

<div id="block-block-11" class="block block-block clearfix">



```

<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<script id="fbwiuwz">
<!--><![CDATA[</><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//><![>
</script></p>
</div>

<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="..ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

```

```

<div class="content">
  <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script> </div>
</div>
</div>

      </div>
      <!-- EOF: #subfooter-left -->
    </div>
  </div>
</div>
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>

```

# 1.311 go-sysconf 0.3.5

## 1.311.1 Available under license :

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## 1.312 gzip 1.10 Ubuntu4.1

### 1.312.1 Available under license :

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<ftp://ftp.gnu.org/gnu/gzip/>

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Version 3, 29 June 2007

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# 1.314 pkg-config 0.29.1 0ubuntu2

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=====

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### 1ubuntu1

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

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

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2.1.1	2.1+2.0.1	2001	PSF	yes



2.1.2	2.1.1	2002	PSF	yes	
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#### Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Floating point exception control  
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Asynchronous socket services

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Execution tracing

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UUencode and UUdecode functions  
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Modified by Jack Jansen, CWI, July 1995:

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

XML Remote Procedure Calls  
-----

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test\_epoll

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Select kqueue

-----

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SipHash24

-----

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

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Original location:

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

Solution inspired by code from:

- Samuel Neves (supercop/crypto\_auth/siphash24/little)
- djb (supercop/crypto\_auth/siphash24/little2)
- Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

-----

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

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zlib

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cfuhash

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libmpdec

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## History and License

\*\*\*\*\*

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

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 <https://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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Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

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

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and  
`:func:`getnameinfo``, which are coded in separate source files from the WIDE

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

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

XML Remote Procedure Calls

-----



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`test_epoll`

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Select kqueue

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SipHash24

-----

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Original location:

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

Solution inspired by code from:

Samuel Neves ([supercop/crypto\\_auth/siphash24/little](https://github.com/supercop/crypto_auth/siphash24/little))

djb ([supercop/crypto\\_auth/siphash24/little2](https://github.com/supercop/crypto_auth/siphash24/little2))

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

strtod and dtoa

-----

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cfuhash

-----

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1.6.1	1.6	2001	CNRI	yes (2)



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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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## 1.320 audit 2.8.2-1ubuntu1.1

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## 1.324 pkg-sftp 1.13.1

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Dave Cheney <dave@cheney.net>

Saulius Gurklys <s4uliu5@gmail.com>

John Eikenberry <jae@zhar.net>

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## 1.325 google-uuid 1.1.1

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

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# 1.326 adduser 3.116ubuntu1

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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>

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# 1.330 spring-framework 3.2.17.RELEASE

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## 1.332 go-errors-errors 1.1.1

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Found in path(s):

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

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```
/*
```

```
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```

```
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```

```
*
```

```
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```

```
* published in UNIX Review, Vol. 6, No. 8.
```

```
*
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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*/
```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:

make all

su and say:

make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL
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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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.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

\* /opt/cola/permits/1029757352\_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.8

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\*

\* @(#)bitstring.h 5.2 (Berkeley) 4/4/90

\*/

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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-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.5
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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-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README

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## 1.336 e2fsprogs 1.44.1 1ubuntu1.3

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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>.

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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)

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

- trivial database library - private includes

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Theodore Ts'o  
23-June-2007

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Ty Coon, President of Vice

That's all there is to it!

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

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

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

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

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

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

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#

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

#

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

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \  
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))  
  
install-shlibs install:: $(BSD_LIB)  
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"  
@$(INSTALL_PROGRAM) $(BSD_LIB) \  
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)  
@-$(LDCONFIG)  
  
install-strip: install  
  
install-shlibs-strip: install-shlibs  
  
uninstall-shlibs uninstall::  
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::  
$(RM) -rf pic  
$(RM) -f $(BSD_LIB)  
$(RM) -f ../$(BSD_LIB)  
This is the Debian GNU/Linux prepackaged version of the Common Error  
Description library. It is currently distributed together with the EXT2 file  
system utilities, which are otherwise packaged as "e2fsprogs".
```

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

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Gadi Oxman, August 1995

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```

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## 1.340 spring-context 5.0.2.RELEASE

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```

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```
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
```

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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
```

\* @since 4.1

\*/

Found in path(s):

\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ScopedProxyCreator.java

\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/MBeanExportOperations.java

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- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/annotation/CacheConfig.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/DefaultEventListenerFactory.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/number/PercentStyleFormatter.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/Scope.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/RemoteTimeoutException.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/EventExpressionRootObject.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ImportResource.java
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- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationEvent.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/config/LangNamespaceHandler.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/PeriodFormatter.java
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- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/support/StandardScriptEvalException.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/PayloadApplicationEvent.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedResource.java
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- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedMetric.java

\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ComponentScans.java  
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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/DurationFormatter.java  
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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/MonthDayFormatter.java

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jar/org/springframework/format/datetime/joda/LocalDateParser.java  
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jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java  
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jar/org/springframework/context/annotation/DeferredImportSelector.java  
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jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java  
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jar/org/springframework/context/annotation/FilterType.java  
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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-  
jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java  
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- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/standard/Jsrf310DateTimeFormatAnnotationFormatterFactory.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/access/ConnectorDelegate.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/support/DefaultLifecycleProcessor.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/Cache.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/support/ScheduledMethodRunnable.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/ejb/access/LocalStatelessSessionProxyFactoryBean.java
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- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/i18n/LocaleContextHolder.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/metadata/ManagedResource.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CachePutOperation.java
- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/AbstractCacheResolver.java
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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java  
\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java  
\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java  
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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/config/Task.java  
\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java  
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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/SmartApplicationListener.java  
\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java

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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/weaving/AspectJWeavingEnabler.java

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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java

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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java  
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```
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/
```

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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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```
*/
```

```
/**
```

```
* Indicates that a component is only eligible for registration when all
```

```
* { @linkplain #value specified conditions } match.
```

```
*
```

```
* <p>A <em>condition</em> is any state that can be determined programmatically
```

```
* before the bean definition is due to be registered (see { @link Condition } for details).
```

```
*
```

```
* <p>The { @code @Conditional } annotation may be used in any of the following ways:
```

```
* <ul>
```

```
* <li>as a type-level annotation on any class directly or indirectly annotated with
```

```
* { @code @Component }, including { @link Configuration @Configuration } classes</li>
```

```
* <li>as a meta-annotation, for the purpose of composing custom stereotype
```

```
* annotations</li>
```

```
* <li>as a method-level annotation on any { @link Bean @Bean } method</li>
```

```
* </ul>
```

```
*
```

```
* <p>If a { @code @Configuration } class is marked with { @code @Conditional },
```

```
* all of the { @code @Bean } methods, { @link Import @Import } annotations, and
```

```
* { @link ComponentScan @ComponentScan } annotations associated with that
```

```
* class will be subject to the conditions.
```

```
*
```

\* `<strong>NOTE</strong>`: Inheritance of { `@Conditional` } annotations  
\* is not supported; any conditions from superclasses or from overridden  
\* methods will not be considered. In order to enforce these semantics,  
\* { `@Conditional` } itself is not declared as  
\* { `@link java.lang.annotation.Inherited @Inherited` }; furthermore, any  
\* custom `<em>composed annotation</em>` that is meta-annotated with  
\* { `@Conditional` } must not be declared as { `@Inherited` }.  
\*  
\* @author Phillip Webb  
\* @author Sam Brannen  
\* @since 4.0  
\* @see Condition  
\*/

Found in path(s):

\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/Conditional.java

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libdwarf-list -at- linuxmail =dot= org

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13 June 2021 updated to match the new file structure.

David Anderson: December 2006

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

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Since March 24 2004, it is maintained by Roland Buaerschmidt  
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## 1.346 kubernetes-klog 0.3.1

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## 1.348 cast 1.4.0

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- \* /opt/cola/permits/1411677356\_1672903584.033523/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_import\_public\_lite.proto
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- \* /opt/cola/permits/1411677356\_1672903584.033523/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/descriptor.proto
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# 1.350 linux-libc-dev 5.4.0-132.148

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
```



```

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
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* along with this program; if not, write to the Free Software
* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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# 1.352 go-autorest v11.1.2

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# 1.353 libxi 1.7.9-1

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package types

```
import "time"
```

```
// FeatureType store features types
```

```
type FeatureType string
```

```
const (
```

```
    // HA means High Availability
```

```
    HA = FeatureType("HA")
```

```
    // DEV means developer licence
```

```
    DEV = FeatureType("DEV")
```

```
    // TRIAL means trial licence
```

```
    TRIAL = FeatureType("TRIAL")
```

```
)
```

```
// Licence holds the information to be encoded in the licence key. It needs to be synced across
```

```
// the django server running on portal-API as well as the corresponding decoding package on the
```

```
// storageOS control plane
```

```
type Licence struct {
```

```
    ArrayUUID string    `json:"arrayUUID,omitempty"`
```

```
    ClusterID string    `json:"clusterID,omitempty"`
```

```
    CustomerID string    `json:"customerID"`
```

```
    CustomerName string    `json:"customerName"`
```

```
    Storage int    `json:"storage"`
```

```
    ValidUntil time.Time    `json:"validUntil"`
```

```
    LicenceType string    `json:"licenceType"`
```

```
    Features map[FeatureType]bool `json:"features"`
```

```
    Unregistered bool    `json:"unregistered"`
```

```
}
```

```
// LicenceKeyContainer - stores a licence key
```

```
type LicenceKeyContainer struct {
```

```
Key string `json:"key"`  
}
```

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package migration

```
import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin    string
    Option    string
    Severity  string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version  string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "%v" `, n.Plugin)
```

```

} else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v"`, n.Option, n.Plugin)
}
if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
} else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
} else {
  s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
}
if n.Additional != "" {
  s += " " + n.Additional
}
return s
}

const (
  // The following statuses are used to indicate the state of support/deprecation in a given release.
  SevDeprecated = "deprecated" // deprecated, but still completely functional
  SevIgnored    = "ignored"    // if included in the corefile, it will be ignored by CoreDNS
  SevRemoved    = "removed"    // completely removed from CoreDNS, and would cause CoreDNS to exit if present
  // in the Corefile
  SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not
  // present in the corefile.
  SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

  // The following statuses are used for selecting/filtering notifications
  SevAll = "all" // show all statuses
)

```

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Josh Wilson <josh.craig.wilson@gmail.com>  
Julien Roland <juroland@gmail.com>  
Kai Trukenmller <ktye78@gmail.com>  
Kent English <kent.english@gmail.com>  
Kevin C. Zimmerman <kevinczimmerman@gmail.com>  
Kirill Motkov <motkov.kirill@gmail.com>  
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>  
Leonid Kneller <recondite.matter@gmail.com>  
Lyron Winderbaum <lyron.winderbaum@student.adelaide.edu.au>  
Martin Diz <github@martindiz.com.ar>  
Matthieu Di Mercurio <matthieu.dimercurio@gmail.com>  
Max Halford <maxhalford25@gmail.com>  
MinJae Kwon <k239507@gmail.com>  
Nathan Edwards <etaoinshrdluwho@gmail.com>  
Nick Potts <nick@the-potts.com>  
Nils Wogatzky <odog@netcologne.de>  
Olivier Wulveryck <olivier.wulveryck@gmail.com>  
Or Rikon <rikonor@gmail.com>

Pontus Melke <pontusmelke@gmail.com>  
Rene French  
Rishi Desai <desai.rishi1@gmail.com>  
Robin Eklind <r.eklind.87@gmail.com>  
Sam Zaydel <szaydel@gmail.com>  
Samuel Kelemen <Samuel@Kelemen.us>  
Saran Ahluwalia <ahlusar.ahluwalia@gmail.com>  
Scott Holden <scott@sshconnection.com>  
Sebastien Binet <seb.binet@gmail.com>  
Shawn Smith <shawnpsmith@gmail.com>  
Spencer Lyon <spencerlyon2@gmail.com>  
Steve McCoy <mccoyst@gmail.com>  
Taesu Pyo <pyotaesu@gmail.com>  
Takeshi Yoneda <cz.rk.t0415y.g@gmail.com>  
Thomas Berg <tomfuture@gmail.com>  
Tobin Harding <me@tobin.cc>  
Vincent Thiery <vjmthiery@gmail.com>  
Vladimr Chalupeck <vladimir.chalupecky@gmail.com>  
Yevgeniy Vahlis <evahlis@gmail.com>  
Yucheng Zhu <zyctc000@gmail.com>  
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```
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    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
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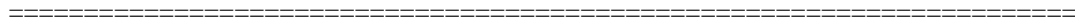
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Andrew Gerrand <adg@golang.org>  
Brad Fitzpatrick <bradfitz@golang.org>  
Eric Koleda <ekoleda+devrel@goglers.com>  
Francesc Campoy <campoy@golang.org>  
Garrick Evans <garrick@google.com>  
Glenn Lewis <gmlewis@google.com>  
Ivan Krasin <krasin@golang.org>  
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>  
Scott Van Woudenberg <scottvw@google.com>  
Takashi Matsuo <tmatsuo@google.com>  
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Abhijeet Kasurde <akasurde@redhat.com>  
abrarshivani <abrarshivani@users.noreply.github.com>  
Adam Shannon <adamkshannon@gmail.com>  
Alessandro Cortiana <alessandro.cortiana@gmail.com>  
Alex Bozhenko <alexbozhenko@fb.com>  
Alex Ellis (VMware) <alexellis2@gmail.com>  
Alvaro Miranda <kikitux@gmail.com>  
Amanda H. L. de Andrade <amanda.andrade@serpro.gov.br>  
Amit Bathla <abathla@vmware.com>  
amit bezalel <amit.bezalel@hpe.com>  
Andrew <AndrewDi@users.noreply.github.com>  
Andrew Chin <andrew@andrewtchin.com>  
Andrew Kutz <akutz@vmware.com>  
Anfernee Yongkun Gui <agui@vmware.com>  
angystardust <angystardust@users.noreply.github.com>  
aniketGslab <aniket.shinde@gslab.com>  
Arran Walker <arran.walker@zopa.com>  
Aryeh Weinreb <aryehweinreb@gmail.com>  
Austin Parker <aparker@appenda.com>  
Balu Dontu <bdontu@vmware.com>  
bastienbc <bastien.barbe.creuly@gmail.com>  
Bob Killen <killen.bob@gmail.com>  
Brad Fitzpatrick <bradfitz@golang.org>  
Bruce Downs <bruceadowns@gmail.com>  
Cdric Blomart <cblomart@gmail.com>

Chris Marchesi <chrism@vanclueverttech.com>  
Christian Hltje <docwhat@gerf.org>  
Clint Greenwood <cgreenwood@vmware.com>  
CuiHaozhi <cuihaozhi@chinacloud.com.cn>  
Danny Lockard <danny.lockard@banno.com>  
Dave Tucker <dave@dtucker.co.uk>  
Davide Agnello <dagnello@hp.com>  
David Stark <dave@davidstark.name>  
Davinder Kumar <davinderk@vmware.com>  
Deric Crago <deric.crago@gmail.com>  
Doug MacEachern <dougmac@vmware.com>  
Eloy Coto <eloy.coto@gmail.com>  
Eric Gray <egrays@vmware.com>  
Eric Yutao <eric.yutao@gmail.com>  
Erik Hollensbe <github@hollensbe.org>  
Ethan Kaley <ethan.kaley@emc.com>  
Fabio Rapposelli <fabio@vmware.com>  
Faiyaz Ahmed <ahmedf@vmware.com>  
forkbomber <forkbomber@users.noreply.github.com>  
freebsdly <qinhuaajun@outlook.com>  
Gavin Gray <gavin@infinio.com>  
Gavrie Philipson <gavrie.philipson@elastifile.com>  
George Hicken <ghicken@vmware.com>  
Gerrit Renker <Gerrit.Renker@ctl.io>  
gthombare <gthombare@vmware.com>  
Hasan Mahmood <mahmoodh@vmware.com>  
Henrik Hodne <henrik@travis-ci.com>  
Isaac Rodman <isaac@eyz.us>  
Ivan Porto Carrero <icarrero@vmware.com>  
James King <james.king@emc.com>  
Jason Kincl <jkincl@gmail.com>  
Jeremy Canady <jcanady@jackhenry.com>  
jeremy-clerc <jeremy@clerc.io>  
Jiatong Wang <wjiatong@vmware.com>  
Joo Pereira <joaodrp@gmail.com>  
Jonas Ausevicius <jonas.ausevicius@virtustream.com>  
Jorge Sevilla <jorge.sevilla@rstor.io>  
kayrus <kay.diam@gmail.com>  
Kevin George <georgek@vmware.com>  
leslie-qiwa <leslie.qiwa@gmail.com>  
Louie Jiang <jiangl@vmware.com>  
maplain <fangyuanl@vmware.com>  
Marc Carmier <mcarmier@gmail.com>  
Maria Ntalla <maria.ntalla@gmail.com>  
Marin Atanasov Nikolov <mnikolov@vmware.com>  
Matt Clay <matt@mystile.com>  
Matthew Cosgrove <matthew.cosgrove@dell.com>  
Matt Moriarity <matt@mattmoriarity.com>

Mevan Samaratunga <mevansam@gmail.com>  
Michal Jankowski <mjankowski@vmware.com>  
mingwei <mingwei@smartx.com>  
Nicolas Lamirault <nicolas.lamirault@gmail.com>  
Omar Kohl <omarkohl@gmail.com>  
Parham Alvani <parham.alvani@gmail.com>  
Pierre Gronlier <pierre.gronlier@corp.ovh.com>  
Pieter Noordhuis <pnoordhuis@vmware.com>  
prydin <prydin@vmware.com>  
Rowan Jacobs <rojacobs@pivotal.io>  
runner.mei <runner.mei@gmail.com>  
S.alar Onur <conur@vmware.com>  
Sergey Ignatov <sergey.ignatov@jetbrains.com>  
Steve Purcell <steve@sanityinc.com>  
Takaaki Furukawa <takaaki.frkw@gmail.com>  
Tamas Eger <tamas.eger@bitrise.io>  
tanishi <tanishi503@gmail.com>  
Ted Zlatanov <tzz@lifelogs.com>  
Thibaut Ackermann <thibaut.ackermann@alcatel-lucent.com>  
Trevor Dawe <trevor.dawe@gmail.com>  
Uwe Bessle <Uwe.Bessle@iteratec.de>  
Vadim Egorov <vegorov@vmware.com>  
Vikram Krishnamurthy <vikramkrishnamu@vmware.com>  
Volodymyr Bobyr <pupsua@gmail.com>  
Witold Krecicki <wpk@culm.net>  
Yang Yang <yangy@vmware.com>  
Yuya Kusakabe <yuya.kusakabe@gmail.com>  
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= vendor/github.com/mindprince/gonvml/LICENSE 3b83ef96387f14655fc854ddc3c6bd57  
package storageos

```
import (  
    "encoding/json"
```

```

"github.com/storageos/go-api/types"
)

const (
    // licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{ })
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{ }
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
        return nil, err
    }
    return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{ })
    if err != nil {
        return err
    }
    return resp.Body.Close()
}
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```

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tomb - support for clean goroutine termination in Go.

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```

```
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```

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package simulator

import (

"github.com/vmware/govmomi/object"

"github.com/vmware/govmomi/vim25/methods"

"github.com/vmware/govmomi/vim25/mo"

"github.com/vmware/govmomi/vim25/soap"

"github.com/vmware/govmomi/vim25/types"

)

// EvalLicense is the default license

var EvalLicense = types.LicenseManagerLicenseInfo{

LicenseKey: "00000-00000-00000-00000-00000",

EditionKey: "eval",

Name: "Evaluation Mode",

Properties: []types.KeyAnyValue{

{

Key: "feature",

Value: types.KeyValue{

Key: "serialuri:2",

Value: "Remote virtual Serial Port Concentrator",

},

},

{

Key: "feature",

Value: types.KeyValue{

Key: "dvs",

```

    Value: "vSphere Distributed Switch",
  },
},
}
}

```

```

type LicenseManager struct {
  mo.LicenseManager
}

```

```

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{}
  m.Self = ref
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
}

```

```

if Map.IsVPX() {
  am := Map.Put(&LicenseAssignmentManager{}).Reference()
  m.LicenseAssignmentManager = &am
}

```

```

return m
}

```

```

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{}},
}

```

```

for _, license := range m.Licenses {
  if license.LicenseKey == req.LicenseKey {
    body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
    return body
  }
}
}

```

```

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
  LicenseKey: req.LicenseKey,
  Labels: req.Labels,
})

```

```

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

```

```

return body
}

```

```

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
  body := &methods.RemoveLicenseBody{
    Res: &types.RemoveLicenseResponse{}},
}

```

```

}

for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
        return body
    }
}
return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{}

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key: req.LabelKey,
            Value: req.LabelValue,
        })

        return body
    }

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
    return body
}

```



```

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{ },
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

```

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```

```
# The list of people who have contributed code to the cmux repository.
```

```
#
```

```
# Auto-generated with:
```

```
# git log --oneline --pretty=format:'%an <%aE>' | sort -u
```

```
#
```

```
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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tomb - support for clean goroutine termination in Go.

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Denis Smirnov <denis.smirnov.91@gmail.com>  
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Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
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>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
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>  
Peter Kaminski <piotrk@google.com>  
Preston Jackson <preston.a.jackson@gmail.com>  
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>



Sean Mcafee <eefacm@gmail.com>  
Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Zhanyong Wan <wan@google.com>

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## 1.356 gorilla 1.2.0

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\* /opt/cola/permits/1137148391\_1614022750.79/0/libapache2-mod-authnz-external-3-3-2-orig-1-tar-  
gz/mod\_authnz\_external-3.3.2/mod\_authnz\_external.c

## 1.358 httpcomponents-core 4.3.2

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```
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```
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```

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```

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Upstream-Name: bzip2

Source: <http://www.bzip.org/>

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

---

# 1.369 selinux 2.7-2build2

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

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=====

Microsoft Corporation  
Brian Wengert (bwengert79)  
Leslie Brody (Les1966)  
Michael M (M1xa)  
Matt Peterson (MattPeterson1)  
Dmitry Kolomiets (kolomiets)  
rdeterre  
DeCarabas  
luisfeliu

intercommiura  
halex2005  
simonlep  
jracle  
gandziej  
adish  
LeonidCSIT  
kreuzerkrieg  
evanc  
Jesse Towner (jwtoowner)

Abinsula s.r.l.  
Gianfranco Costamagna (LocutusOfBorg)

AutoDesk Inc.  
Cyrille Fauvel (cyrillef)

Illumina Inc.  
Gery Vessere (gery@vessere.com)

Cisco Systems  
Gergely Lukacsy (glukacsy)  
Chris Deering (deeringc)

Ocedo GmbH  
Henning Pfeiffer (megaposer)

thomasschaub

Trimble  
Tim Boundy (gigaplex)

Rami Abughazaleh (icnocop)

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base64.cpp and base64.h

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ghost@aladdin.com

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## 1.371 util-linux 2.31.1 0.4ubuntu3.3

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```
7zXZF!t/5]oK3&K6Y^
CP#vMOoYL?6]2z({CLYj0
LFIU<>Q& }7!C}e6]]e`M,J}.dE,4hVmp
RsTk!|r!Quo1OE|FfP+A }XBT9 \<
0<P9{>s\36R)m.S(bCb7S<DP(`ka")^oy`r)7I%tU6@AS.SMoOfF3whA!!WIMcK')e/J1F
g|BI'W|j>jf_{JPp}oMd3rfQ+}_3<%<6jx{ }11D5eg;NtD+~R]w[xiue@F#Em0hu;,x{R7V2!Vq~AG{EX -
"0h*5x)*x\n)#!$*w!:499X1il:"P+=22cmr3J}/0o9nlB?|N&(q=$pPc!ab,6f&v/RS>O./OW[INy(BM~]~uf$Ngl]"_W[0;
OXY[aB*"/_U~fQHO(3[b%o )+lq#+_d<QdLd=$1p!h0h6nfN=I+GNRk gKOL3\N3"uGxfIC
zCTJtjSN:$gE11QQ$7*5++V=4Xt9V?r3_Vd2o8h"F8~qM,ZI6=Qgtw|11np#_(+?)zP(H!E2Nz'WW_WmA,
FSYZE*-exTWFt##
rd>k|R>aXrvXS~"9=U$puaqQb;\k,RD5(fu&#
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1%QsS|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[
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Fw=|
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;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
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### 1.372.1 Available under license :

```
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```

Things that are used only by the testsuite and benchmark, and  
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A list of the supported algorithms, their origins and licenses (from the manual):

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#### CAMELLIA

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#### CAST128

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#### DES

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#### MD2

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

#### MD4

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#### MD5

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#### SERPENT

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#### SHA1

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SHA224, SHA256, SHA384, and SHA512

Written by Niels Mller, 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.

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# 1.377 coreutils 8.28 1ubuntu1

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# 1.379 golang-glog 0.0.0-20160126235308-23def4e6c14b

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# 1.380 prometheus-procfs 0.6.0

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```
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```
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```

```
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```

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# 1.389 spring-aop 5.0.2.RELEASE

## 1.389.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1502192063_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-
jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1502192063_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-
jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1502192063_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-
jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /opt/cola/permits/1502192063_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-
jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
* /opt/cola/permits/1502192063_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-
jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
```

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```

Found in path(s):

- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/config/AopConfigUtils.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/config/AopNamespaceUtils.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/support/AbstractExpressionPointcut.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/ProxyFactoryBean.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-



jar/org/springframework/aop/support/ComposablePointcut.java  
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\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
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\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
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\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
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\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/aspectj/TypePatternClassFilter.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/support/AopUtils.java  
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jar/org/springframework/aop/Advisor.java  
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jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java  
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jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java  
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jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java  
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jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java  
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jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java  
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\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/AopContext.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/adaptor/DefaultAdvisorAdapterRegistry.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java

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\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java  
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\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/TrueMethodMatcher.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java  
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\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
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\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/target/AbstractPoolingTargetSource.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/ProxyMethodInvocation.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/TargetClassAware.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
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jar/org/springframework/aop/framework/Advised.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/MethodMatcher.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java

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

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It was downloaded from <ftp://ftp.gnutls.org/gcrypt/gnutls/>

Upstream Authors:

Simon Josefsson \*simon [at] josefsson.org\*  
Current maintainer; draft TLS 1.2 support.

Nikos Mavrogiannopoulos \*nmav [at] gnutls.org\*  
Original author and maintainer of GnuTLS.

Fabio Fiorina \*Fabio.Fiorina [at] alcatel.it\*  
ASN.1 structures parser library (libtasn1).

Timo Schulz \*twoaday [at] freakmail.de\*  
OpenPGP support (OpenCDK library).

Andrew McDonald \*andrew [at] mcdonald.org.uk\*  
OpenSSL compatible interface.

Ludovic Courtes \*ludo [at] gnu.org\*  
Guile bindings, OpenPGP bug fixes.

Mario Lenz \*m [at] riolenz.de\*

Fixes to OpenCDK.

Howard Chu \*hyc [at] symas.com\*

APIs to extract X.500 DN's from Certificates.

Ivo Timmermans \*ivo [at] o2w.nl\*

Man pages, OpenCDK, fixes.

Stefan Walter \*stef [at] memberwebs.com\*

PKCS8 fix, PKCS #11 backend move to p11-kit.

Yoshisato YANAGISAWA \*yanagisawa [at] csg.is.titech.ac.jp\*

Camellia support.

Emile Van Bergen \*emile [at] e-advies.nl\*

TLS/IA fixes.

Joe Orton \*jorton [at] redhat.com\*

Certificate name import/export, build fixes, test vectors.

Daniel Kahn Gillmor \*dkg-debian.org [at] fifthhorseman.net\*

OpenPGP discussion and improvements.

David Marn Carreo \*davefx [at] gmail.com\*

Added gnutls\_x509\_crq\_get\_key\_id.

Daiki Ueno \*ueno [at] unixuser.org\*

Added TLS Session Ticket (RFC 5077) support,  
finished client-side TLS 1.2 support.

Brad Hards \*bradh [at] frogmouth.net\*

Add X.509 Issuer Alternative Name functions.

Boyan Kasarov \*bkasarov [at] gmail.com\*

C++ fixes.

Steve Dispensa \*dispensa [at] phonefactor.com\*

Initial TLS safe renegotiation patch.

Jonathan Bastien-Filiatrault \*joe [at] x2a.org\*

Fix TLS-version checks.

Redesign and implementation of the buffering layer.

Initial DTLS implementation.

Ruslan Ijbulatov (LRN) \*lrn1986 [at] gmail.com\*

Win32 patches.

Andy Polyakov \*appro [at] openssl.org\*  
AES-NI and Padlock assembler code (at lib/accelerated/intel/asm/)

David Woodhouse \*dwmw2 [at] infradead.org\*  
DTLS 0.9 implementation.

Olga Smolenchuk \*olyasib12 [at] gmail.com\*  
DTLS/TLS heartbeat implementation.

Ilya Tumaykin \*itumaykin [at] gmail.com\*  
Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo \*martin [at] martin.st\*  
DTLS-SRTP support.

Alessandro Ghedini \*alessandro [at] ghedini.me\*  
TLS Fallback SCSV support (RFC7507).

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lib/system/vasprintf.c

Upstream Authors: David Woodhouse <dwmw2@infradead.org>

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Comment: This code is not used on Debian/\*, since we have a working  
vasprintf() in glibc.

lib/extras/hex.\*

Author: Rusty Russell <rusty@rustcorp.com.au>

Comment: <http://ccodearchive.net/info/str/hex.html>

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doc/examples/tlsproxy/

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tests/pkcs11/pkcs11-mock.\*

Author: Jaroslav Imrich <jimrich@jimrich.sk>

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Author: Bruno Haible <[bruno@clisp.org](mailto:bruno@clisp.org)>

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Comment: Debian package is built against libunistring-dev package.

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=====

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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.
```

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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!

```
/* doio.c
```

```
*
```

```
* Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
```

```
* 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Larry Wall and others
```

```
*
```

```
* You may distribute under the terms of either the GNU General Public
```

```
* License or the Artistic License, as specified in the README file.
```

```
*
```

```
*/
```

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```
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# These people have either submitted patches or suggestions, or their bug
# reports or comments have inspired the appropriate patches. Corrections,
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--
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@thegotonerd.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 <HYanatha@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 <ajsavige@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@deveeloper.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@ecnavantage.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 Dalglish <Robert.Dalglish@sk.sympatico.ca>  
Bob Ernst <boernst@cpan.org>  
Bob Wilkinson <bob@fourtheeye.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@tgsmc.com>  
Brad Lanam <bl@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>  
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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.nl2k.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 <dlux@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 <dougmc@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 <duncef@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>  
Gunter Schmidt <gsc@brucker.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 <qihongwen@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 <jkeenan@cpan.org>  
James FitzGibbon <james@ican.net>  
James Jurach <muaddib@erf.net>  
James Mastros <james@mastros.biz>  
James McCoy <vega.james@gmail.com>  
James Raspas <jraspas@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 <jmcdou@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 <jquioga@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@ispssoft.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@pqq.de>  
John Bley <jbb6@acpub.duke.edu>  
John Borwick <jhborwic@unity.ncsu.edu>  
John Cerney <j-cerney1@ti.com>  
John D Groenveld <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@aaossz.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@ltdcdev.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>  
Martyn Pearce <martyn@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@frie.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. <atoomic@cpan.org>  
Niels Thykier <niels@thykier.net>  
Nigel Sandever <njsandever@hotmail.com>  
Niko Tyni <ntyni@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 Dugnonle <patrick.dugnonle@bnpparibas.com>  
Patrick Hayes <Patrick.Hayes.CAP\_SESA@renault.fr>  
Patrick O'Brien <pdo@cs.umd.edu>  
Patrik Häggglund <patrik.h.haggglund@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 <petersonp@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 <rn timer@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@crazypanda.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.scryste.com>  
Tobias Leich <email@frogs.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>  
Tsutomu 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@vsesp.ru>  
Viktor Turskyi <koorchik@gmail.com>  
Ville Skyttä <scop@cs132170.pp.htv.fi>  
Vincent Pit <perl@profvince.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 <zcmliller@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>

# 1.395 grpc-ecosystem-go-grpc-middleware

## 1.0.1-0.20190118093823-f849b5445de4

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```

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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!

```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
```

\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
\*  
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\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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# 1.401 msgp 1.1.6

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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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@c Set file name and title for man page.

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@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

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@end smallexample

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

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

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

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```
@c man end
```

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That's all there is to it!  
DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Individuals submitting their patches under 2-clause BSD:

David Allsopp David.Allsopp@cl.cam.ac.uk  
Erik M. Bray erik.bray@lri.fr  
Brian Inglis Brian.Inglis@SystematicSw.ab.ca  
Daniel Santos daniel.santos@pobox.com

=====

Individuals who signed the former Cygwin Copyright Assignment:

AJ Reins tbisp@qwest.net  
Brian E. Dessent brian@dessent.net  
Brian Kenneth Ford Brian.Ford@FlightSafety.com  
Charles K. Moore keithmo@exmsft.com  
Christian Franke franke@computer.org  
Christian Lestrade christian.lestrade@free.fr  
Christopher Faylor me@cgf.cx  
Christopher January chris@atomice.net  
Conrad Scott conrad.scott@dsl.pipex.com  
Corinna Vinschen corinna@vinschen.de  
Craig Iain McGeachie slapdau@yahoo.com.au  
David Korn dave.korn.cygwin@gmail.com  
Davis Euresti davie@alum.mit.edu  
Dennis Vshivkov walrus@amur.ru  
Elfyn McBratney elfyn@ubertales.co.uk  
Eric Blake eblake@redhat.com  
Ernie Coskrey ernie.coskrey@steeleye.com  
Gerd Spalink Gerd.Spalink@t-online.de  
Hartmut Honisch hhonisch@users.sourceforge.net

Igor Pechtchanski pechtcha@cs.nyu.edu  
Jacek Trzcinski jacek@certum.pl  
Jeffrey Eric Altman jaltman@openafs.org  
Jerry D. Hedden jerry@hedden.us  
Joe Loh joel@pivot3.com  
Johan Rydberg johan@rydberg.com  
Johannes Schindelin johannes.schindelin@gmx.de  
John Hood cgull@glup.org  
Jon Turney jon.turney@dronecode.org.uk  
Yoni Londner yonihola2@gmail.com  
Joseph H. Buehler jbuehler@hekimian.com  
Joshua Daniel Franklin joshuadfranklin@yahoo.com  
Ken Brown kbrown@cornell.edu  
Lapo Luchini lapo@lapo.it  
Lev Bishop lev.bishop@gmail.com  
Mark Geisert mark@maxrnd.com  
Max Kaehn slothman@electric-cloud.com  
Micha Nelissen mdvpost@hotmail.com  
Michael Haubenwallner michael.haubenwallner@ssi-schaefer.com  
Nicholas S. Wourms nwourms@netscape.com  
Pavel Yonkov Tsekov ptsekov@gmx.net  
Peter Foley pefoley2@pefoley.com  
Pierre A. Humblet phumblet@phumblet.no-ip.org  
Robert G. Byrnes byrnes@curl.com  
Ryan C. Gordon icculus@icculus.org  
Sam Steingold sds@gnu.org  
Stephen Cleary shammah@spamcop.net  
Stephen Osborn bub@io.com  
Takashi Yano takashi.yano@nifty.ne.jp  
Thomas Pfaff tpfaff@gmx.net  
Vaclav Haisman vhaisman@gmail.com  
Yaakov Selkowitz yselkowi@redhat.com  
Yitzchak Scott-Thoennes sthonna@efn.org

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# 1.407 libapache2-mod-authz-unixgroup 1.1.0-0.1

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gz/v2.5.0/protos/src/proto/google/protobuf/unittest_empty.proto
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ForceFieldBuildersPreRun.java
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gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TestBadIdentifiers.java
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
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* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/more_protos/src/proto/com/google/protobuf/nested_extension_lite.proto
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/MessageTest.java
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LazyStringArrayListTest.java
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
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* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/google/protobuf/unittest_embed_optimize_for.proto
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
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```

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TextFormatTest.java  
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\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/nested\_extension.proto  
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\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/AbstractMessageTest.java  
\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_import.proto



# 1.409 kubernetes-api 0.0.0-20190602101200-7067668b35ab

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## 1.410 also 1.1.3-5ubuntu0.2

## 1.411 iconv 2.27

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- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/ManagedProperties.java
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- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/parsing/Location.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/PropertyAccessorUtils.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/ConversionNotSupportedException.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/parsing/SourceExtractor.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/InvalidPropertyException.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/BeanPostProcessor.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
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- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/RuntimeBeanNameReference.java
- \* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
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\* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java

\* /opt/cola/permits/1135863686\_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/propertyeditors/PatternEditor.java

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jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java

# 1.414 afero 1.5.1

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- \* /opt/cola/permits/1414306413\_1672906883.8277152/0/jruby-tar-gz/jruby/RubyEnumBuilderContext.java

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cmd/krb5/slave/kpropd_rpc.c
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lib/libgss/g_dsp_status.c
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lib/libgss/g_export_name.c
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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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```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <title>MIT Kerberos License information &#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:    './',
      VERSION:    '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link rel="author" title="About these documents" href="about.html" />
  <link rel="index" title="Index" href="genindex.html" />
  <link rel="search" title="Search" href="search.html" />
  <link rel="copyright" title="Copyright" href="copyright.html" />
  <link rel="next" title="Copyright" href="copyright.html" />
  <link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

      <div class="rel">

        <a href="index.html" title="Full Table of Contents"
          accesskey="C">Contents</a> |
        <a href="mitK5features.html" title="MIT Kerberos features"
          accesskey="P">previous</a> |
        <a href="copyright.html" title="Copyright"
          accesskey="N">next</a> |
        <a href="genindex.html" title="General Index"
          accesskey="I">index</a> |
        <a href="search.html" title="Enter search criteria"
          accesskey="S">Search</a> |
```

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</div>

</div>

</div>

<div class="content-wrapper">

<div class="content">

<div class="document">

<div class="documentwrapper">

<div class="bodywrapper">

<div class="body" role="main">

<div class="section" id="mit-kerberos-license-information">

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<div class="toctree-wrapper compound">

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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/
```







```
<span class="n">kprop</span><span class="o">/</span><span class="n">kpropd_rpc</span><span
class="o">.</span><span class="n">c</span></pre></div>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi``, including the following files:

.. parsed-literal::

```
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:

.. parsed-literal::

```
include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
```

lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
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Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
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  <input type="hidden" name="area" value="default" />
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</div>
<div class="clearer"></div>
</div>
</div>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c

lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

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

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```
# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.
```

```
import os
import sys
import re
```

```
def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)
```

```
def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
```

```
# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
```

```
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != " and line != '-':
            text_seen = True
    return is_license
```

```
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^\* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
```

```
# Scan for license statements.
```

```

in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\^*.?*?\*/', '', line)
    line = line.strip()

    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').rstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                   code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
    elif line.strip() != "":
        code_seen = True

    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

```

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=====

```
.. toctree::
```

```
:hidden:
```

```
copyright.rst
```

```
.. include:: notice.rst
```

```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
```

```
/*
```

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```
*/
```

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## 1.421 kubernetes-kubectl 1.15.1

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# 1.422 libxmu 1.1.2-2

## 1.422.1 Available under license :

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

```
--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+  $srcdir/configure "$@"
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:04:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ * New upstream release.
+ * Add ${misc:Depends} to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-{arch,indep} debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200
+
```

+libxmu (2:1.1.1-1) unstable; urgency=low  
+  
+ \* New upstream release.  
+ \* Don't require (fake)root for debian/rules clean.  
+ \* Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per  
+ configure.ac.  
+ \* Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call  
+ from debian/rules.  
+ \* Remove David Nusinow from Uploaders.  
+ \* Bump debhelper build-dep for \${misc:Pre-Depends} usage.  
+  
+ -- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200  
+  
+libxmu (2:1.1.0-3) unstable; urgency=low  
+  
+ \* Build for multiarch.  
+  
+ -- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700  
+  
+libxmu (2:1.1.0-2) unstable; urgency=low  
+  
+ [ Christopher James Halse Rogers ]  
+ \* debian/patches/01\_dont\_export\_private\_deps.patch:  
+ - The Xmu.h header uses libXt symbols in a #define, so libXt is not a  
+ private dep. With binutils-gold, the indirect dependency on Xt is not  
+ considered when linking with Xmu so this causes build failures.  
+  
+ [ Julien Cristau ]  
+ \* Drop Pre-Depends on x11-common, only needed for upgrades from the  
+ monolith.  
+  
+ -- Julien Cristau <jcristau@debian.org> Thu, 28 Apr 2011 14:10:11 +0200  
+  
+libxmu (2:1.1.0-1) unstable; urgency=low  
+  
+ \* New upstream release.  
+ \* Bump xutils-dev build-dep for new macros.  
+ \* Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.  
+ \* Pass --with-xmlto and --without-fop (we want html and txt only).  
+ \* Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to  
+ libxmu-headers.install file.  
+ \* Remove the hardcoded path to the X logo in the Xmu.html file.  
+ \* Kill \*.xml in the doc directory, no point in shipping them.  
+ \* Switch from --list-missing to --fail-missing for additional safety.  
+  
+ -- Cyril Brulebois <kibi@debian.org> Fri, 19 Nov 2010 08:42:29 +0100  
+  
+libxmu (2:1.0.5-2) unstable; urgency=high

+  
+ [ Julien Cristau ]  
+ \* Rename the build directory to not include DEB\_BUILD\_GNU\_TYPE for no  
+ good reason. Thanks, Colin Watson!  
+ \* Remove myself from Uploaders  
+ \* Don't pass both -s and -Nfoo/-pfoo to dh\_strip. This resulted in an empty  
+ libxmu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.  
+  
+ [ Cyril Brulebois ]  
+ \* Add myself to Uploaders.  
+ \* Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well  
+ for the report.  
+  
+ -- Cyril Brulebois <kibi@debian.org> Sat, 04 Sep 2010 14:32:30 +0200  
+  
+libxmu (2:1.0.5-1) unstable; urgency=low  
+  
+ [ Timo Aaltonen ]  
+ \* New upstream release.  
+ + Fix 64bit support (closes: #521887)  
+  
+ [ Julien Cristau ]  
+ \* Bump Standards-Version to 3.8.3.  
+  
+ -- Julien Cristau <jcristau@debian.org> Wed, 25 Nov 2009 19:20:17 +0100  
+  
+libxmu (2:1.0.4-2) unstable; urgency=low  
+  
+ [ Julien Cristau ]  
+ \* Drop -1 debian revisions from build-deps.  
+ \* libxmu6{,-dbg}, libxmu-dev, libxmu1{,-dbg} and libxmu-dev don't need a  
+ dependency on x11-common.  
+ \* Build libxmu-headers in binary-indep instead of binary-arch  
+ (closes: #486418). Thanks, Martin Koeppe!  
+ \* Run autoreconf on build; build-depend on automake, libtool, xutils-dev.  
+ \* Handle parallel builds.  
+  
+ [ Brice Goglin ]  
+ \* Add a link to www.X.org and a reference to the upstream module  
+ in the long description.  
+ \* Add upstream URL to debian/copyright.  
+ \* Add README.source, bump Standards-Version to 3.8.2.  
+ \* Use updated xsfbs, closes: #538587.  
+ \* Move -dbg packages to section debug.  
+  
+ -- Julien Cristau <jcristau@debian.org> Fri, 07 Aug 2009 14:30:36 +0200  
+  
+libxmu (2:1.0.4-1) unstable; urgency=low

+  
 + [ Julien Cristau ]  
 + \* New upstream release.  
 + \* Make libxmu\*-dev depend on libxmu-headers (= \${source:Version}). Thanks,  
 + Josh Triplett.  
 + \* Don't export private dependencies in xmu.pc and xmuu.pc. These  
 + dependencies are handled by Requires.private.  
 + \* Due to the above, build-depend on quilt and apply the xsfbs patch rules.  
 + \* Update xsfbs to the latest version as of 2008-01-06.  
 + \* Add myself to Uploaders, and remove Branden and Fabio with their  
 + permission.  
 + \* Bump Standards-Version to 3.7.3 (no changes).  
 + \* s/^XS-Vcs/Vcs/  
 +  
 + [ Timo Aaltonen ]  
 + \* Bump the epoch so that this can be synced to Ubuntu in the future.  
 +  
 + -- Julien Cristau <jcristau@debian.org> Thu, 17 Jan 2008 14:57:47 +0100  
 +  
 +libxmu (1:1.0.3-1) unstable; urgency=low  
 +  
 + \* New upstream release.  
 + \* Install the upstream changelog.  
 + \* Remove outdated CVS information from the package descriptions, and add  
 + XS-Vcs-Git and XS-Vcs-Browser.  
 + \* Fix package sections (libraries in libs, development stuff in libdevel).  
 + \* Use \${binary:Version} instead of \${Source-Version}.  
 +  
 + -- Julien Cristau <jcristau@debian.org> Thu, 12 Apr 2007 13:40:07 +0200  
 +  
 +libxmu (1:1.0.2-2) unstable; urgency=low  
 +  
 + [ Andres Salomon ]  
 + \* Test for obj-\$(DEB\_BUILD\_GNU\_TYPE) before creating it during build;  
 + idempotency fix.  
 +  
 + [ Drew Parsons ]  
 + \* dbg package has priority extra.  
 +  
 + -- David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400  
 +  
 +libxmu (1:1.0.2-1) experimental; urgency=low  
 +  
 + \* New upstream release  
 + \* Bump debhelper compat to 5  
 + \* Run dh\_install with --list-missing  
 + \* Version the -headers package's x11-common pre-dep to use version 1:7.0.0  
 + to match the rest of Debian and shut lintian up

+ \* Bump standards version to 3.7.2.0  
+  
+ -- David Nusinow <dnusinow@debian.org> Mon, 3 Jul 2006 18:43:32 -0400  
+  
+libxmu (1:1.0.1-3) unstable; urgency=low  
+  
+ \* Reorder makeshlib command in rules file so that ldconfig is run  
+ properly. Thanks Drew Parsons and Steve Langasek.  
+  
+ -- David Nusinow <dnusinow@debian.org> Tue, 18 Apr 2006 21:49:59 -0400  
+  
+libxmu (1:1.0.1-2) unstable; urgency=low  
+  
+ \* Upload to unstable  
+  
+ -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:59 -0500  
+  
+libxmu (1:1.0.1-1) experimental; urgency=low  
+  
+ \* First upload to Debian  
+  
+ -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:53:53 -0500  
+  
+libxmu (1:6.2.3-5) breezy; urgency=low  
+  
+ \* Also, libxmu-dev needs to depend on libxt-dev too.  
+  
+ -- Adam Conrad <adconrad@ubuntu.com> Mon, 25 Jul 2005 09:43:47 +0000  
+  
+libxmu (1:6.2.3-4) breezy; urgency=low  
+  
+ \* Bump libxt-dev build-dep once more, \_XOPEN\_SOURCE begone!  
+  
+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 10:48:14 +0000  
+  
+libxmu (1:6.2.3-3) breezy; urgency=low  
+  
+ \* Make libxmu-dev depend on libxext-dev, since libxmu links to it.  
+  
+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 07:56:02 +0000  
+  
+libxmu (1:6.2.3-2) breezy; urgency=low  
+  
+ \* Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid  
+ \_XOPEN\_SOURCE.  
+  
+ -- Daniel Stone <daniel.stone@ubuntu.com> Sat, 23 Jul 2005 00:20:50 +1000  
+

```
+libxmu (1:6.2.3-1) breezy; urgency=low
+
+ * First libxmu release.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Mon, 16 May 2005 22:10:17 +1000
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ debhelper (>= 9),
+ dh-autoreconf,
+ libx11-dev (>= 1:0.99.2),
+ libxt-dev (>= 1:0.99.1),
+ libxext-dev (>= 1:0.99.1),
+ pkg-config,
+ quilt,
+ automake,
+ libtool,
+ xutils-dev (>= 1:7.6+2),
+# devel-docs:
+ xmlto (>= 0.0.22),
+ xorg-sgml-doctools (>= 1:1.8),
+ w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgiit/pkg-xorg/lib/libxmu.git
+
+Package: libxmu6
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous utility library
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmu1.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
```



+ .  
+ This module can be found at  
+ [git://anongit.freedesktop.org/git/xorg/lib/libXmu](https://anongit.freedesktop.org/git/xorg/lib/libXmu)  
+  
+Package: libxmu6-dbg  
+Section: debug  
+Architecture: any  
+Multi-Arch: same  
+Priority: extra  
+Depends:  $\{\text{shlibs:Depends}\}$ ,  $\{\text{misc:Depends}\}$ , libxmu6 (=  $\{\text{binary:Version}\}$ )  
+Description: X11 miscellaneous utility library (debug package)  
+ libXmu provides a set of miscellaneous utility convenience functions for X  
+ libraries to use. libXmuu is a lighter-weight version that does not depend  
+ on libXt or libXext; for more information, see libxmuu1.  
+ .  
+ This package contains the debug versions of the library found in libxmu6.  
+ Non-developers likely have little use for this package.  
+ .  
+ More information about X.Org can be found at:  
+ [<URL:http://www.X.org>](http://www.X.org)  
+ .  
+ This module can be found at  
+ [git://anongit.freedesktop.org/git/xorg/lib/libXmu](https://anongit.freedesktop.org/git/xorg/lib/libXmu)  
+  
+Package: libxmu-dev  
+Section: libdevel  
+Architecture: any  
+Multi-Arch: same  
+Depends:  $\{\text{shlibs:Depends}\}$ ,  $\{\text{misc:Depends}\}$ , libxext-dev, libxt-dev, libxmu6 (=  $\{\text{binary:Version}\}$ ), libxmu-headers (=  $\{\text{source:Version}\}$ )  
+Description: X11 miscellaneous utility library (development headers)  
+ libXmu provides a set of miscellaneous utility convenience functions for X  
+ libraries to use. libXmuu is a lighter-weight version that does not depend  
+ on libXt or libXext; for more information, see libxmuu1.  
+ .  
+ This package contains the development headers for the library found in  
+ libxmu6. Non-developers likely have little use for this package.  
+ .  
+ More information about X.Org can be found at:  
+ [<URL:http://www.X.org>](http://www.X.org)  
+ .  
+ This module can be found at  
+ [git://anongit.freedesktop.org/git/xorg/lib/libXmu](https://anongit.freedesktop.org/git/xorg/lib/libXmu)  
+  
+Package: libxmuu1  
+Section: libs  
+Architecture: any  
+Multi-Arch: same

+Pre-Depends:  $\{\text{misc:Pre-Depends}\}$

+Depends:  $\{\text{shlibs:Depends}\}$ ,  $\{\text{misc:Depends}\}$

+Description: X11 miscellaneous micro-utility library

+ libXmuu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

+ .

+ More information about X.Org can be found at:

+ <URL:<http://www.X.org>>

+ .

+ This module can be found at

+ <git://anongit.freedesktop.org/git/xorg/lib/libXmu>

+ .

+Package: libxmuu1-dbg

+Section: debug

+Architecture: any

+Multi-Arch: same

+Priority: extra

+Depends:  $\{\text{shlibs:Depends}\}$ ,  $\{\text{misc:Depends}\}$ , libxmuu1 (=  $\{\text{binary:Version}\}$ )

+Description: X11 miscellaneous micro-utility library (debug package)

+ libXmuu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

+ .

+ This package contains the debug versions of the library found in libxmuu1.

+ Non-developers likely have little use for this package.

+ .

+ More information about X.Org can be found at:

+ <URL:<http://www.X.org>>

+ .

+ This module can be found at

+ <git://anongit.freedesktop.org/git/xorg/lib/libXmu>

+ .

+Package: libxmuu-dev

+Section: libdevel

+Architecture: any

+Multi-Arch: same

+Depends:  $\{\text{shlibs:Depends}\}$ ,  $\{\text{misc:Depends}\}$ , libxmuu1 (=  $\{\text{binary:Version}\}$ ), libxmu-headers (=  $\{\text{source:Version}\}$ )

+Description: X11 miscellaneous micro-utility library (development headers)

+ libXmuu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

+ .

+ This package contains the development headers for the library found in libxmuu1. Non-developers likely have little use for this package.

+ .

+ More information about X.Org can be found at:

+ <URL:http://www.X.org>  
+ .  
+ This module can be found at  
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu  
+  
+Package: libxmu-headers  
+Section: libdevel  
+Architecture: all  
+Multi-Arch: foreign  
+Depends:  
+ libx11-dev,  
+ x11proto-core-dev,  
+ \${misc:Depends},  
+Description: X11 miscellaneous utility library headers  
+ libXmu and libXmuu are miscellaneous utility libraries for X library  
+ developers to abstract some common functions. This package provides the  
+ headers for both libraries (as libXmuu is a subset of libXmu), and  
+ is depended upon by both. For more information, please see libxmu-dev or  
+ libxmuu-dev.  
+ .  
+ More information about X.Org can be found at:  
+ <URL:http://www.X.org>  
+ .  
+ This module can be found at  
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu  
--- libxmu-1.1.2.orig/debian/copyright  
+++ libxmu-1.1.2/debian/copyright  
@@ -0,0 +1,77 @@  
+This package was downloaded from  
+http://xorg.freedesktop.org/releases/individual/lib/  
+  
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+  
+-----

+  
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+  
+-----

+  
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install

+++ libxmu-1.1.2/debian/libxmu-dev.install

@@ -0,0 +1,3 @@

+usr/lib\*/libXmu.a

+usr/lib\*/libXmu.so

+usr/lib\*/pkgconfig/xmu.pc

--- libxmu-1.1.2.orig/debian/libxmu-headers.install

+++ libxmu-1.1.2/debian/libxmu-headers.install

@@ -0,0 +1,2 @@

+usr/include/X11/\*

+usr/share/doc/libxmu-headers

--- libxmu-1.1.2.orig/debian/libxmu6.install

+++ libxmu-1.1.2/debian/libxmu6.install

@@ -0,0 +1 @@

+usr/lib\*/libXmu.so.6\*

--- libxmu-1.1.2.orig/debian/libxmu-dev.install

+++ libxmu-1.1.2/debian/libxmu-dev.install

@@ -0,0 +1,3 @@

+usr/lib\*/libXmu.a

+usr/lib\*/libXmu.so

+usr/lib\*/pkgconfig/xmu.pc

--- libxmu-1.1.2.orig/debian/libxmu1.install

+++ libxmu-1.1.2/debian/libxmu1.install

@@ -0,0 +1 @@

+usr/lib\*/libXmu.so.1\*

--- libxmu-1.1.2.orig/debian/patches/01\_dont\_export\_private\_deps.diff

+++ libxmu-1.1.2/debian/patches/01\_dont\_export\_private\_deps.diff

@@ -0,0 +1,26 @@

+diff --git a/xmu.pc.in b/xmu.pc.in

+index a086f83..15dabbf 100644

+--- a/xmu.pc.in

++++ b/xmu.pc.in

+@@ -6,7 +6,7 @@ includedir=@includedir@

+ Name: Xmu

+ Description: Xmu Library

+ Version: @PACKAGE\_VERSION@

+Requires: xproto x11 xt

++Requires: xproto xt

+ Requires.private: x11 xt xext

```

+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+--- a/xmuu.pc.in
++++ b/xmuu.pc.in
+@@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: @PACKAGE_VERSION@
+-Requires: xproto x11
++Requires: xproto
+ Requires.private: x11
+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
+#!/usr/bin/make -f
+# debian/rules for the Debian libxmu package.
+# Copyright 2004 Scott James Remnant <scott@netsplit.com>
+# Copyright 2005 Daniel Stone <daniel@fooishbar.org>
+# Copyright 2005 David Nusinow <dnusinow@debian.org>
+
+# Uncomment this to turn on verbose mode.
+#export DH_VERBOSE=1
+
+.PHONY: build
+build:
+ dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%:
+ dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
+
+override_dh_auto_configure:
+ dh_auto_configure -- \
+ --disable-silent-rules \
+ --docdir=${prefix}/share/doc/libxmu-headers \
+ --with-xmlto \
+ --without-fop
+
+override_dh_auto_install:
+ dh_auto_install
+ find debian/tmp/usr/share/doc/libxmu-headers -name '*.xml' -delete

```

```
+
+override_dh_install-arch:
+ dh_install --fail-missing -Xusr/include -X.la
+
+override_dh_strip:
+ dh_strip -Nlibxmu6 -Nlibxmu1
+ dh_strip -plibxmu6 --dbg-package=libxmu6-dbg
+ dh_strip -plibxmu1 --dbg-package=libxmu1-dbg
--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+#git=git://anongit.freedesktop.org/xorg/lib/libXmu
+version=3
+http://xorg.freedesktop.org/releases/individual/lib/ libXmu-(.*)\tar\gz
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff
```

# 1.423 git 2.17.1 1ubuntu0.4

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Marc Stevens

Cryptology Group

Centrum Wiskunde & Informatica

P.O. Box 94079, 1090 GB Amsterdam, Netherlands

marc@marc-stevens.nl

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danshu@microsoft.com

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# 1.427 linux-libc-dev 4.15.0-193.204

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

That's all there is to it!

```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
```

\* loss of link, and correctly re-enable PHY when link is  
\* re-established. (put back CFG\_PHYIE)  
\*  
\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
\*  
\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
\*  
\* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
\* see init\_nicstar() for PHY initialization to change this. This driver  
\* expects the Linux ATM stack to support scatter-gather lists  
\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
\*  
\* Implementing minimal-copy of received data:  
\* IDT always receives data into a small buffer, then large buffers  
\* as needed. This means that data must always be copied to create  
\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
\* Fix is simple: make large buffers large enough to hold entire  
\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
\* copy small buffer contents to head of large buffer.  
\* Trick is to avoid fragmenting Linux, due to need for a lot of large  
\* buffers. This is done by 2 things:  
\* 1) skb->destructor / skb->atm.recycle\_buffer  
\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
\*  
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\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996



\*  
\*  
\*/

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## 1.434 diffutils 3.7-3

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jar/javax/annotation/concurrent/GuardedBy.java  
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jar/javax/annotation/concurrent/NotThreadSafe.java  
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jar/javax/annotation/concurrent/Immutable.java  
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jar/javax/annotation/concurrent/ThreadSafe.java
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## 1.443 libffi 3.2.1 8

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## 1.447 activation-api 1.2.1

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# 1.448 cdebconf 0.251ubuntu1

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

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

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

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1.3 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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Manifest-Version: 1.0  
Automatic-Module-Name: com.google.protobuf.util  
Bnd-LastModified: 1590600820442  
Build-Jdk: 1.8.0\_181-google-v7  
Built-By: haberman  
Bundle-Description: Utilities for Protocol Buffers  
Bundle-DocURL: <https://developers.google.com/protocol-buffers/>  
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Bundle-ManifestVersion: 2  
Bundle-Name: Protocol Buffers [Util]  
Bundle-SymbolicName: com.google.protobuf.util  
Bundle-Version: 3.12.2  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.google.protobuf.util;version="3.12.2";uses:="com.google.protobuf"  
Import-Package: com.google.common.base;version="[29.0,30)",com.google.common.io;version="[29.0,30)",com.google.common.math;version="[29.0,30)",com.google.common.primitives;version="[29.0,30)",com.google.gson;version="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobuf;version="[3.12,4)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-3.0.0.201509101326

Found in path(s):

\* /opt/cola/permits/1434645980\_1672813621.3343387/0/protobuf-java-util-3-12-2-jar/META-INF/MANIFEST.MF

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# 1.459 x-net 0.0.0-20210119194325-5f4716e94777

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## 1.461 expat 2.2.5 3

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=====

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## 1.465 debconf 1.5.66ubuntu1

## 1.466 zstd 1.4.4+dfsg-3ubuntu0.1

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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.

\*/

# 1.467 openorb master

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## 1.468 properties 1.8.5

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include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd



man/funopen.3bsd  
man/getbsize.3bsd  
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man/fmtcheck.3bsd

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man/pidfile.3bsd

src/expand\_number.c

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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random\_linux.h

src/arc4random\_openbsd.h

src/arc4random\_uniform.c

src/arc4random\_unix.h

src/arc4random\_win.h

src/closefrom.c

src/getentropy\_aix.c

src/getentropy\_bsd.c

src/getentropy\_hpux.c

src/getentropy\_hurd.c

src/getentropy\_linux.c

src/getentropy\_osx.c

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@c End:
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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)  
Oliver Laumann (examples/rlfe)

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The End

# 1.485 openssh 7.6p1-4ubuntu0.1

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```
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */
```

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```

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\*/

/\* OPENBSD ORIGINAL: sys/sys/poll.h \*/

#if !defined(HAVE\_POLL) && !defined(HAVE\_POLL\_H)

#ifndef \_COMPAT\_POLL\_H\_

#define \_COMPAT\_POLL\_H\_

typedef struct pollfd {

int fd;

short events;

short revents;

} pollfd\_t;

typedef unsigned int nfds\_t;

#define POLLIN 0x0001

#define POLLOUT 0x0004

#define POLLERR 0x0008

#define POLLHUP 0x0010

#define POLLNVAL 0x0020

#if 0

/\* the following are currently not implemented \*/

#define POLLPRI 0x0002

#define POLLRDNORM 0x0040

#define POLLNORM POLLRDNORM

#define POLLWRNORM POLLOUT

#define POLLRDBAND 0x0080

#define POLLWRBAND 0x0100

#endif

#define INFTIM (-1) /\* not standard \*/

int poll(struct pollfd \*, nfds\_t, int);

#endif /\* !\_COMPAT\_POLL\_H\_ \*/

#endif /\* !HAVE\_POLL\_H\_ \*/

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[Tatu continues]

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\* @version 3.0 (December 2000)

\*

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

\*

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

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

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```

-----

```

$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $
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```

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```

```

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*

```

```

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*/

```

```

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

```

```

#ifndef HAVE_WAITPID

```

```

/* Clean out any potential issues */

```

```

#undef WIFEXITED

```

```

#undef WIFSTOPPED

```

```

#undef WIFSIGNALED

```

```

/* Define required functions to mimic a POSIX look and feel */

```

```

#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */

```

```

#define WIFEXITED(w) (!((_W_INT(w)) & 0377))

```

```

#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)

```

```

#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))

```

```

#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)

```

```

#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)

```

```

#define WCOREFLAG 0x80

```

```

#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

```

```

/* Prototype */

```

```

pid_t waitpid(int, int *, int);

```

```

#endif /* !HAVE_WAITPID */

```

```

#endif /* _BSD_WAITPID_H */

```

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Alif Rachmawadi <subosito@gmail.com>  
Amir Mohammad Saied <amir@gluegadget.com>  
Amrut Joshi <amrut.joshi@gmail.com>  
Andre Nathan <andrenth@gmail.com>  
Andrea Spadaccini <spadaccio@google.com>  
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>

Andrei Korzhevskii <a.korzhevskiy@gmail.com>  
Andrei Vieru <euvieru@gmail.com>  
Andres Erbsen <andreser@google.com>  
Andrew Balholm <andybalholm@gmail.com>  
Andrew Bonventre <andybons@chromium.org>  
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 Lutomirski <andy@luto.us>  
Andrew Pilloud <andrewpilloud@igneoussystems.com>  
Andrew Pritchard <awpritchard@gmail.com>  
Andrew Radev <andrey.radev@gmail.com>  
Andrew Skiba <skibaa@gmail.com>  
Andrew Szeto <andrew@jabagawee.com>  
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>  
Andrew Wilkins <axwalk@gmail.com>  
Andrew Williams <williams.andrew@gmail.com>  
Andrey Mirtchovski <mirtchovski@gmail.com>  
Andrey Petrov <andrey.petrov@shazow.net>  
Andriy Lytvynov <lytvynov.a.v@gmail.com>  
Andy Balholm <andy@balholm.com>  
Andy Davis <andy@bigandian.com>  
Andy Maloney <asmaloney@gmail.com>  
Anfernee Yongkun Gui <anfernee.gui@gmail.com>  
Angelo Bulfone <mbulfone@gmail.com>  
Anh Hai Trinh <anh.hai.trinh@gmail.com>  
Anmol Sethi <anmol@aubble.com>  
Anschel Schaffer-Cohen <anschelse@gmail.com>  
Anthony Canino <anthony.canino1@gmail.com>  
Anthony Eufemio <anthony.eufemio@gmail.com>  
Anthony Martin <ality@pbrane.org>  
Anthony Starks <ajstarks@gmail.com>  
Apisak Darakananda <pongad@gmail.com>  
Aram Hvrneanu <aram@mgk.ro>  
Areski Belaid <areski@gmail.com>  
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>  
Artyom Pervukhin <artyom.pervukhin@gmail.com>  
Arvinth Rajesh Tamilmanni <art@a-30.net>  
Asim Shankar <asimshankar@gmail.com>  
Ato Araki <ato.araki@gmail.com>  
Audrey Lim <audreylh@gmail.com>

Augusto Roman <aroman@gmail.com>  
Aulus Egnatius Varialus <varialus@gmail.com>  
Austin Clements <austin@google.com> <aclements@csail.mit.edu>  
awaw fumin <awawfumin@gmail.com>  
Ayanamist Yang <ayanamist@gmail.com>  
Aymerick Jhanne <aymerick@jehanne.org>  
Balazs Lecz <leczb@google.com>  
Ben Burkert <ben@benburkert.com>  
Ben Eitzen <eitzenb@golang.org>  
Ben Fried <ben.fried@gmail.com>  
Ben Lynn <benlynn@gmail.com>  
Ben Olive <sionide21@gmail.com>  
Benjamin Black <b@b3k.us>  
Benjamin Prosnitz <bprosnitz@google.com>  
Benjamin Wester <bwester@squareup.com>  
Benny Siegert <bsiegert@gmail.com>  
Benoit Sigoure <tsunenet@gmail.com>  
Berengar Lehr <Berengar.Lehr@gmx.de>  
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>  
Bill O'Farrell <billo@ca.ibm.com>  
Bill Thiede <couchmoney@gmail.com>  
Billie Harold Cleek <bhcleek@gmail.com>  
Bjorn Tillenius <bjorn@tillenius.me>  
Bjorn Tipling <bjorn.tipling@gmail.com>  
Blake Gentry <blakesgentry@gmail.com>  
Blake Mizerany <blake.mizerany@gmail.com>  
Bobby Powers <bobbypowers@gmail.com>  
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>  
Brad Garcia <bgarcia@golang.org>  
Brady Catherman <brady@gmail.com>  
Brady Sullivan <brady@bsull.com>  
Brandon Gilmore <varz@google.com>  
Brendan Daniel Tracey <tracey.brendan@gmail.com>  
Brendan O'Dea <bod@golang.org>  
Brett Cannon <bcannon@gmail.com>  
Brian Dellisanti <briandellisanti@gmail.com>  
Brian G. Merrell <bgmerrell@gmail.com>  
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>  
Brian Ketelsen <bketelsen@gmail.com>  
Brian Slesinsky <skybrian@google.com>  
Brian Smith <ohohvi@gmail.com>  
Bryan C. Mills <bcmills@google.com>  
Bryan Chan <bryan.chan@ca.ibm.com>  
Bryan Ford <brynosaurus@gmail.com>  
Caine Tighe <arctanofyourface@gmail.com>  
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>  
Caleb Spare <cespare@gmail.com>  
Carl Chatfield <carlchatfield@gmail.com>

Carl Jackson <carl@stripe.com>  
Carl Mastrangelo <notcarl@google.com>  
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>  
Carlos Castillo <cookieo9@gmail.com>  
Carlos Cirello <uldericofilho@gmail.com>  
Cary Hull <chull@google.com>  
Case Nelson <case.nelson@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>  
ChaiShushan <chaishushan@gmail.com>  
Charles L. Dorian <cldorian@gmail.com>  
Charles Lee <zombie.fml@gmail.com>  
Charles Weill <weill@google.com>  
Cherry Zhang <cherryyz@google.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 Manghane <cmang@golang.org>  
Chris McGee <sirnewton\_01@yahoo.ca> <newton688@gmail.com>  
Chris Zou <chriszou@ca.ibm.com>  
Christian Couder <chriscool@tuxfamily.org>  
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>  
Christine Hansmann <chhansmann@gmail.com>  
Christoffer Buchholz <christoffer.buchholz@gmail.com>  
Christoph Hack <christoph@tux21b.org>  
Christopher Cahoon <chris.cahoon@gmail.com>  
Christopher Guiney <chris@guiney.net>  
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>  
Christy Perez <christy@linux.vnet.ibm.com>  
CL Sung <clsung@gmail.com> <cl\_sung@htc.com>  
Clement Skau <clementskau@gmail.com>  
Colby Ranger <cranger@google.com>  
Colin Cross <ccross@android.com>  
Colin Edwards <colin@recursivepenguin.com>  
Colin Kennedy <moshen.colin@gmail.com>

Conrad Irwin <conrad.irwin@gmail.com>  
Conrad Meyer <cemeyer@cs.washington.edu>  
Corey Thomasson <cthom.lists@gmail.com>  
Cosmos Nicolaou <cnicolaou@google.com>  
Cristian Staretu <unclejacksons@gmail.com>  
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>  
Damian Gryski <dgryski@gmail.com>  
Damien Neil <dneil@google.com>  
Dan Caddigan <goldcaddy77@gmail.com>  
Dan Callahan <dan.callahan@gmail.com>  
Dan Jacques <dnj@google.com>  
Dan Peterson <dpiddy@gmail.com>  
Dan Pupius <dan@medium.com>  
Dan Sinclair <dan.sinclair@gmail.com>  
Daniel Fleischman <danielfleischman@gmail.com>  
Daniel Johansson <dajo2002@gmail.com>  
Daniel Kerwin <d.kerwin@gini.net>  
Daniel Krech <eikeon@eikeon.com>  
Daniel Lidn <daniel.liden.87@gmail.com>  
Daniel Morsing <daniel.morsing@gmail.com>  
Daniel Nadasi <dnadasi@google.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>  
Darren Elwood <darren@textnode.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>  
David Anderson <danderson@google.com>  
David Barnett <dbarnett@google.com>  
David Benjamin <davidben@google.com>  
David Brophy <dave@brophy.uk>  
David Brgin <676c7473@gmail.com>  
David Calavera <david.calavera@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 Forsythe <dforsythe@gmail.com>  
David G. Andersen <dave.andersen@gmail.com>  
David Glasser <glasser@meteor.com>  
David Howden <dhowden@gmail.com>  
David Jakob Fritz <david.jakob.fritz@gmail.com>  
David Leon Gil <coruus@gmail.com>

David McLeish <davemc@google.com>  
David Presotto <presotto@gmail.com>  
David R. Jenni <david.r.jenni@gmail.com>  
David Sansome <me@davidsansome.com>  
David Symonds <dsymonds@golang.org>  
David Thomas <davidthomas426@gmail.com>  
David Titarenco <david.titarenco@gmail.com>  
Davies Liu <davies.liu@gmail.com>  
Dean Prichard <dean.prichard@gmail.com>  
Denis Bernard <db047h@gmail.com>  
Denis Brandolini <denis.brandolini@gmail.com>  
Denys Honsiorovskiy <honsiorovskiy@gmail.com>  
Derek Buitenhuis <derek.buitenhuis@gmail.com>  
Derek Che <drc@yahoo-inc.com>  
Derek Parker <parkerderek86@gmail.com>  
Derek Shockey <derek.shockey@gmail.com>  
Devon H. O'Dell <devon.odell@gmail.com>  
Dhiru Kholia <dhiru.kholia@gmail.com>  
Didier Spezia <didier.06@gmail.com>  
Dimitri Tcaciuc <dtcaciuc@gmail.com>  
Dirk Gadsden <dirk@esherido.com>  
Diwaker Gupta <diwakergupta@gmail.com>  
Dmitri Shuralyov <shurcool@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 Savintsev <dsavints@gmail.com>  
Dmitry Yakunin <nonamezeil@gmail.com>  
Dominik Honnef <dominik.honnef@gmail.com>  
Dominik Vogt <vogt@linux.vnet.ibm.com>  
Donald Huang <don.hcd@gmail.com>  
Donovan Hide <donovanhide@gmail.com>  
Doug Anderson <douga@google.com>  
Drew Hintz <adhintz@google.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>  
Eden Li <eden.li@gmail.com>  
Edward Muller <edwardam@interlix.com>  
Egon Elbre <egonelbre@gmail.com>  
Ehren Kret <ehren.kret@gmail.com>  
Eivind Uggedal <eivind@uggedal.com>  
Elias Naur <elias.naur@gmail.com>



Emil Hessman <c.emil.hessman@gmail.com> <emil@hessman.se>  
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>  
Eoghan Sherry <ejsherry@gmail.com>  
Eric Clark <zerohp@gmail.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 Roshan-Eisner <eric.d.eisner@gmail.com>  
Erik Aigner <aigner.erik@gmail.com>  
Erik Dubbelboer <erik@dubbelboer.com>  
Erik St. Martin <alakriti@gmail.com>  
Erik Westrup <erik.westrup@gmail.com>  
Ernest Chiang <ernest\_chiang@htc.com>  
Esko Luontola <esko.luontola@gmail.com>  
Ethan Burns <eaburns@google.com>  
Evan Broder <evan@stripe.com>  
Evan Brown <evanbrown@google.com>  
Evan Kroske <evankroske@google.com>  
Evan Martin <evan.martin@gmail.com>  
Evan Phoenix <evan@phx.io>  
Evan Shaw <chickencha@gmail.com>  
Ewan Chou <coocood@gmail.com>  
Fabian Wickborn <fabian@wickborn.net>  
Fabrizio Milo <mistobaan@gmail.com>  
Fan Hongjian <fan.howard@gmail.com>  
Fatih Arslan <fatih@arslan.io>  
Fazlul Shahriar <fshahriar@gmail.com>  
Federico Simoncelli <fsimonce@redhat.com>  
Felix Geisendrfer <haimuiba@gmail.com>  
Filippo Valsorda <hi@filippo.io>  
Firmansyah Adiputra <frm.adiputra@gmail.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>  
Francisco Claude <fclaud@recoded.cl>  
Francisco Souza <franciscosouza@gmail.com>  
Frederick Kelly Mayle III <frederickmayle@gmail.com>  
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>  
Frithjof Schulze <schulze@math.uni-hannover.de> <sfritjhof@gmail.com>  
Frits van Bommel <fvbommel@gmail.com>  
Fumitoshi Ukai <ukai@google.com>  
Gaal Yahas <gaal@google.com>  
Gabriel Aszalos <gabriel.aszalos@gmail.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>  
Geert-Johan Riemer <gjr19912@gmail.com>  
Georg Reinke <guelfey@gmail.com>  
George Shammas <george@shamm.as> <georgyo@gmail.com>  
Gerasimos Dimitriadis <gedimitr@gmail.com>  
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>  
Giles Lean <giles.lean@pobox.com>  
Giovanni Bajo <rasky@develer.com>  
Giulio Iotti <dullgiulio@gmail.com>  
Glenn Brown <glennb@google.com>  
Glenn Lewis <gmlewis@google.com>  
Gordon Klaus <gordon.klaus@gmail.com>  
Graham King <graham4king@gmail.com>  
Graham Miller <graham.miller@gmail.com>  
Greg Ward <greg@gerg.ca>  
Guillaume J. Charmes <guillaume@charmes.net>  
Guobiao Mei <meiguobiao@gmail.com>  
Gustav Paul <gustav.paul@gmail.com>  
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>  
Han-Wen Nienhuys <hanwen@google.com>  
Hari haran <hariharan.uno@gmail.com>  
Hariharan Srinath <srinathh@gmail.com>  
Harley Laue <losinggeneration@gmail.com>  
Harshavardhana <hrshvardhana@gmail.com>  
Hvard Haugen <havard.haugen@gmail.com>  
Hector Chu <hectorchu@gmail.com>  
Hector Martin Cantero <hector@marcansoft.com>  
Henning Schmiedehausen <henning@schmiedehausen.org>  
Henrik Edwards <henrik.edwards@gmail.com>  
Herbert Georg Fischer <herbert.fischer@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>  
Hossein Sheikh Attar <hattar@google.com>  
Hsin-Ho Yeh <yhh92u@gmail.com>  
Hu Keping <hukeping@huawei.com>

Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>  
Ian Gudger <ian@loosescre.ws>  
Ian Lance Taylor <iant@golang.org>  
Icarus Sparry <golang@icarus.freeuk.com>  
Idora Shinatose <idora.shinatose@gmail.com>  
Igor Dolzhikov <bluesriverz@gmail.com>  
Ilya Tocar <ilya.tocar@intel.com>  
INADA Naoki <songofacandy@gmail.com>  
Ingo Krabbe <ikrabbe.ask@gmail.com>  
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>  
Irieda Noboru <irieda@gmail.com>  
Isaac Wagner <ibw@isaacwagner.me>  
Ivan Krasin <krasin@golang.org>  
Ivan Ukhov <ivan.ukhov@gmail.com>  
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>  
Jacob Baskin <jbaskin@google.com>  
Jacob H. Haven <jacob@cloudflare.com>  
Jacob Hoffman-Andrews <github@hoffman-andrews.com>  
Jae Kwon <jae@tendermint.com>  
Jakob Borg <jakob@nym.se>  
Jakub ajka <jcajka@redhat.com>  
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>  
James Aguilar <jaguilar@google.com>  
James Bardin <j.bardin@gmail.com>  
James Chacon <jchacon@google.com>  
James David Chalfant <james.chalfant@gmail.com>  
James Fysh <james.fysh@gmail.com>  
James Gray <james@james4k.com>  
James Meneghello <rawrz0r@gmail.com>  
James P. Cooper <jamespcooper@gmail.com>  
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>  
James Schofield <james@shoeboxapp.com>  
James Sweet <james.sweet88@googlemail.com>  
James Toy <nil@opensesame.st>  
James Tucker <raggi@google.com>  
James Whitehead <jnwhiteh@gmail.com>  
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>  
Jamie Turner <jamwt@dropbox.com>  
Jamie Wilkinson <jaq@spacepants.org>  
Jamil Djadala <djadala@gmail.com>  
Jan H. Hosang <jan.hosang@gmail.com>  
Jan Kratochvil <jan.kratochvil@redhat.com>  
Jan Mercl <0xjml@gmail.com>  
Jan Mercl <befelemepeseveze@gmail.com>  
Jan Newmarch <jan.newmarch@gmail.com>  
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>  
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>  
Jaroslav Poepko <jp@webmaster.ms>

Jason Barnett <jason.w.barnett@gmail.com>  
Jason Del Ponte <delpontej@gmail.com>  
Jason Hall <jasonhall@google.com>  
Jason Travis <infomaniac7@gmail.com>  
Jay Weisskopf <jay@jayschwa.net>  
Jean-Marc Eurin <jmeurin@google.com>  
Jed Denlea <jed@fastly.com>  
Jeff Craig <jeffcraig@google.com>  
Jeff Hodges <jeff@somethingsimilar.com>  
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>  
Jeff Sickel <jas@corpus-callosum.com>  
Jeff Wendling <jeff@spacemonkey.com>  
Jens Frederich <jfrederich@gmail.com>  
Jeremiah Harmsen <jeremiah@google.com>  
Jeremy Jackins <jeremyjackins@gmail.com>  
Jeremy Schlatter <jeremy.schlatter@gmail.com>  
Jess Frazelle <me@jessfraz.com>  
Jihyun Yu <yjh0502@gmail.com>  
Jim Cote <jfcote87@gmail.com>  
Jim McGrath <jimmc2@gmail.com>  
Jimmy Zelinskie <jimmyzelinskie@gmail.com>  
Jingcheng Zhang <diogin@gmail.com>  
Jingguo Yao <yaojingguo@gmail.com>  
Jiong Du <londdevil@gmail.com>  
Joakim Sernbrant <serbaut@gmail.com>  
Joe Farrell <joe2farrell@gmail.com>  
Joe Harrison <joehazzers@gmail.com>  
Joe Henke <joed.henke@gmail.com>  
Joe Poirier <jdpoirier@gmail.com>  
Joe Shaw <joe@joeshaw.org>  
Joe Sylve <joe.sylve@gmail.com>  
Joe Tsai <joetsai@digital-static.net>  
Joel Sing <jsing@google.com>  
Joel Stemmer <stemmertech@gmail.com>  
Johan Euphrosine <proppy@google.com>  
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 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 Newlin <jnewlin@google.com>  
John Potocny <johnp@vividcortex.com>  
John Schnake <schnake.john@gmail.com>

John Shahid <jvshahid@gmail.com>  
John Tuley <john@tuley.org>  
Jonathan Allie <jonallie@google.com>  
Jonathan Amsterdam <jba@google.com>  
Jonathan Boulle <jonathanboulle@gmail.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 Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>  
Jonathan Rudenberg <jonathan@titanous.com>  
Jonathan Wills <runningwild@gmail.com>  
Jongmin Kim <atomaths@gmail.com>  
Jos Visser <josv@google.com>  
Jose Luis Vzquez Gonzlez <josvazg@gmail.com>  
Joseph Bonneau <jcb@google.com>  
Joseph Holsten <joseph@josephholsten.com>  
Josh Bleecher Snyder <josharian@gmail.com>  
Josh Goebel <dreamer3@gmail.com>  
Josh Hoak <jhoak@google.com>  
Josh Holland <jrh@joshh.co.uk>  
Joshua Chase <jcjosuachase@gmail.com>  
Jostein Stuhaug <js@solidsystem.no>  
JP Sugarbroad <jpsugar@google.com>  
JT Olds <jtolds@xnet5.com>  
Jukka-Pekka Kekkonen <karatepekka@gmail.com>  
Julia Hansbrough <flowerhack@google.com>  
Julian Kornberger <jk+github@digineo.de>  
Julian Phillips <julian@quantumfyre.co.uk>  
Julien Schmidt <google@julienschmidt.com>  
Jungho Ahn <jhahn@google.com>  
Jure Ham <jure.ham@zemanta.com>  
Justin Nu <nuss.justin@gmail.com>  
Kai Backman <kaib@golang.org>  
Kamal Aboul-Hosn <aboulhosn@google.com>  
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>  
Kang Hu <hukangustc@gmail.com>  
Karan Dhiman <karandhi@ca.ibm.com>  
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>  
Katrina Owen <katrina.owen@gmail.com>  
Kay Zhu <kayzhu@google.com>  
KB Sriram <kbsriram@google.com>  
Kei Son <hey.calmdown@gmail.com>  
Keith Ball <inflatablewoman@gmail.com>  
Keith Randall <khr@golang.org>  
Keith Rarick <kr@xph.us>  
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>  
Kenji Kaneda <kenji.kaneda@gmail.com>  
Kenneth Shaw <kenshaw@gmail.com>  
Kenny Grant <kennygrant@gmail.com>  
Kevin Ballard <kevin@sb.org>  
Kevin Burke <kev@inburke.com>  
Kevin Kirsche <kev.kirsche@gmail.com>  
Kevin Klues <klueska@gmail.com> <klueska@google.com>  
Kevin Malachowski <chowski@google.com>  
Kevin Vu <kevin.m.vu@gmail.com>  
Kim Shrier <kshrier@racktopsystems.com>  
Kirklin McDonald <kirklin.mcdonald@gmail.com>  
Klaus Post <klauspost@gmail.com>  
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>  
Kris Rousey <krousey@google.com>  
Kristopher Watts <traetox@gmail.com>  
Kun Li <likunarmstrong@gmail.com>  
Kyle Consalus <consalus@gmail.com>  
Kyle Isom <kyle@gokyle.net>  
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>  
L Campbell <unpansu@gmail.com>  
Lai Jiangshan <eag0628@gmail.com>  
Larry Hosken <lahosken@golang.org>  
Larz Conwell <larzconwell@gmail.com>  
Lee Hinman <hinman@gmail.com>  
Lee Packham <lpackham@gmail.com>  
Lewin Bormann <lewin.bormann@gmail.com>  
Lloyd Dewolf <foolswisdom@gmail.com>  
Lorenzo Stoakes <lstoakes@gmail.com>  
Louis Kruger <louisk@google.com>  
Luan Santos <cfcluan@gmail.com>  
Luca Greco <luca.greco@alcacoop.it>  
Lucien Stuker <lucien.stuker@gmail.com>  
Lucio De Re <lucio.dere@gmail.com>  
Luit van Drongelen <luitvd@gmail.com>  
Luka Zakrajek <tr00.g33k@gmail.com>  
Luke Curley <qpingu@gmail.com>  
Luna Duclos <luna.duclos@palmstonegames.com>  
Luuk van Dijk <lvd@golang.org> <lvd@google.com>  
Lynn Boger <laboger@linux.vnet.ibm.com>  
Mal Curtis <mal@mal.co.nz>  
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>  
Manu Garg <manugarg@google.com>  
Manu S Ajith <neo@codingarena.in>

Manuel Mendez <mmendez534@gmail.com>  
Marc Weistroff <marc@weistroff.net>  
Marc-Antoine Ruel <maruel@chromium.org>  
Marcel van Lohuizen <mpvl@golang.org>  
Marco Hennings <marco.hennings@freiheit.com>  
Marga Manterola <marga@google.com>  
Marius Nuennerich <mnu@google.com>  
Mark Bucciarelli <mkbucc@gmail.com>  
Mark Severson <miquella@gmail.com>  
Mark Theunissen <mark.theunissen@gmail.com>  
Mark Zavislak <zavislak@google.com>  
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>  
Marko Mikulicic <mkm@google.com>  
Marko Tiikkaja <marko@joh.to>  
Markus Duft <markus.duft@salomon.at>  
Markus Sonderegger <marraison@gmail.com>  
Markus Zimmermann <zimmski@gmail.com>  
Martin Garton <garton@gmail.com>  
Martin Mohrmann <martisch@uos.de>  
Martin Neubauer <m.ne@gmx.net>  
Martin Olsson <martin@minimum.se>  
Marvin Stenger <marvin.stenger94@gmail.com>  
Mateusz Czapliski <czapkofan@gmail.com>  
Mathias Beke <git@denbeke.be>  
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 Bostock <matt@mattbostock.com>  
Matt Brown <mbrown@google.com>  
Matt Drollette <matt@drollette.com>  
Matt Jibson <matt.jibson@gmail.com>  
Matt Joiner <anacrolix@gmail.com>  
Matt Jones <mrjones@google.com>  
Matt Layher <mdllyher@gmail.com>  
Matt Reiferson <mreiferson@gmail.com>  
Matt Robenolt <matt@ydekproductions.com>  
Matt T. Proud <matt.proud@gmail.com>  
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>  
Matthew Brennan <matty.brennan@gmail.com>  
Matthew Cottingham <mattcottingham@gmail.com>  
Matthew Dempsky <mdempsky@google.com>  
Matthew Holt <Matthew.Holt+git@gmail.com>  
Matthew Horsnell <matthew.horsnell@gmail.com>  
Maxim Khitrov <max@mxcrypt.com>  
Maxim Pimenov <mpimenov@google.com>  
Maxim Ushakov <ushakov@google.com>  
Maxwell Krohn <themax@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 Chaten <mchaten@gmail.com>  
Michael Elkins <michael.elkins@gmail.com>  
Michael Fraenkel <michael.fraenkel@gmail.com>  
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>  
Michael Hoisie <hoisie@gmail.com>  
Michael Hudson-Doyle <michael.hudson@linaro.org>  
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 Munday <munday@ca.ibm.com>  
Michael Pearson <mipearson@gmail.com>  
Michael Piatek <piatek@google.com>  
Michael Pratt <mpratt@google.com>  
Michael Schaller <michael@5challer.de>  
Michael Shields <mshields@google.com>  
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>  
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>  
Michael Teichgrber <mteichgraber@gmx.de> <mt4swm@googlemail.com>  
Michael Vetter <g.bluehut@gmail.com>  
Michal Bohuslvek <mbohuslvek@gmail.com>  
Michal Cierniak <cierniak@google.com>  
Micha Derkacz <zitek@inet.pl>  
Michalis Kargakis <michaliskargakis@gmail.com>  
Michel Lespinasse <>walken@google.com>  
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>  
Miguel Mendez <stxmendez@gmail.com>  
Mihai Borobocea <MihaiBorobocea@gmail.com>  
Mikael Tillenius <mikti42@gmail.com>  
Mike Andrews <mra@xoba.com>  
Mike Danese <mikedanese@google.com>  
Mike Rosset <mike.rosset@gmail.com>  
Mike Samuel <mikesamuel@gmail.com>  
Mike Solomon <msolo@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>  
Miquel Sabat Sol <mikisabate@gmail.com>



Mohit Agarwal <mohit@sdf.org>  
Monty Taylor <mordred@inaugust.com>  
Moriyoshi Koizumi <mozo@mozo.jp>  
Morten Siebuhr <sbhr@sbhr.dk>  
Mshe van der Sterre <moshevds@gmail.com>  
Mrunal Patel <mrunalp@gmail.com>  
Muhammed Uluyol <uluyol0@gmail.com>  
Nan Deng <monnand@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>  
Neelesh Chandola <neelesh.c98@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 Presta <nick@nickpresta.ca> <nick1presta@gmail.com>  
Nicholas Sullivan <nicholas.sullivan@gmail.com>  
Nicholas Waples <nwaples@gmail.com>  
Nick Cooper <nmvc@google.com>  
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>  
Nick Patavalis <nick.patavalis@gmail.com>  
Nick Petroni <npetroni@cs.umd.edu>  
Nicolas Kaiser <nikai@nikai.net>  
Nicolas Owens <mischief@offblast.org>  
Nicolas S. Dade <nic.dade@gmail.com>  
Niels Widger <niels.widger@gmail.com>  
Nigel Kerr <nigel.kerr@gmail.com>  
Nigel Tao <nigeltao@golang.org>  
Niko Dziemba <niko@dziemba.com>  
Nikolay Turpitko <nikolay@turpitko.com>  
Noah Campbell <noahcampbell@gmail.com>  
Nodir Turakulov <nodir@google.com>  
Norberto Lopes <nlopes.ml@gmail.com>  
Oleku Konko <oleku.konko@gmail.com>  
Oling Cat <olingcat@gmail.com>  
Oliver Hookins <ohookins@gmail.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>  
zgr Kesim <oec-go@kesim.org>  
Padraig Kitterick <padraigkitterick@gmail.com>  
Paolo Giarrusso <p.giarrusso@gmail.com>

Paolo Martini <mrtnpaolo@gmail.com>  
Pascal S. de Kloe <pascal@quies.net>  
Patrick Crosby <patrick@stathat.com>  
Patrick Gavlin <pgavlin@gmail.com>  
Patrick Higgins <patrick.allen.higgins@gmail.com>  
Patrick Mzard <patrick@mezard.eu>  
Patrick Mylund Nielsen <patrick@patrickmn.com>  
Patrick Riley <pfr@google.com>  
Patrick Smith <pat42smith@gmail.com>  
Paul A Querna <paul.querna@gmail.com>  
Paul Borman <borman@google.com>  
Paul Chang <paulchang@google.com>  
Paul Hammond <paul@paulhammond.org>  
Paul Hankin <paulhankin@google.com>  
Paul Lalonde <paul.a.lalonde@gmail.com>  
Paul Marks <pmarks@google.com>  
Paul Meyer <paul.meyer@microsoft.com>  
Paul Nasrat <pnasrat@google.com>  
Paul Rosania <paul.rosania@gmail.com>  
Paul Sbarra <Sbarra.Paul@gmail.com>  
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>  
Paul van Brouwershaven <paul@vanbrouwershaven.com>  
Paul Wankadia <junyer@google.com>  
Paulo Casaretto <pcasaretto@gmail.com>  
Pavel Paulau <pavel.paulau@gmail.com>  
Pavel Zinovkin <pavel.zinovkin@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 Collingbourne <pcc@google.com>  
Peter Froehlich <peter.hans.froehlich@gmail.com>  
Peter Gonda <pgonda@google.com>  
Peter Kleiweg <pkleiweg@xs4all.nl>  
Peter McKenzie <petermck@google.com>  
Peter Moody <pmoody@uber.com>  
Peter Mundy <go.peter.90@gmail.com>  
Pter Surnyi <speter.go1@gmail.com>  
Pter Szab <pts@google.com>  
Pter Szilgyi <peterke@gmail.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>  
Phil Pennock <pdp@golang.org>

Philip Brgesen <philip.borgesen@gmail.com>  
Philip Hofer <phofer@umich.edu>  
Philip K. Warren <pkwarren@gmail.com>  
Pierre Durand <pierredurand@gmail.com>  
Pierre Roullon <pierre.roullon@gmail.com>  
Pieter Droogendijk <pieter@binky.org.uk>  
Pietro Gagliardi <pietro10@mac.com>  
Prashant Varanasi <prashant@prashantv.com>  
Preetam Jinka <pj@preet.am>  
Quan Tran <qeed.quan@gmail.com>  
Quan Yong Zhai <qyzhai@gmail.com>  
Quentin Perez <qperez@ocs.online.net>  
Quentin Smith <quentin@golang.org>  
Quoc-Viet Nguyen <afelion@gmail.com>  
Rahul Chaudhry <rahulchaudhry@chromium.org>  
Raif S. Naffah <go@naffah-raif.name>  
Rajat Goel <rajat.goel2010@gmail.com>  
Ralph Corderoy <ralph@inputplus.co.uk>  
Raph Levien <raph@google.com>  
Raul Silvera <rsilvera@google.com>  
Reinaldo de Souza Jr <juniorz@gmail.com>  
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>  
Rhys Hiltner <rhys@justin.tv>  
Ricardo Padilha <ricardospadilha@gmail.com>  
Richard Barnes <rlb@ipv.sx>  
Richard Crowley <r@rcrowley.org>  
Richard Eric Gavaletz <gavaletz@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>  
Riku Voipio <riku.voipio@linaro.org>  
Risto Jaakko Saarelm <rsaarelm@gmail.com>  
Rob Earhart <earhart@google.com>  
Rob Norman <rob.norman@infinitycloud.com>  
Rob Pike <r@golang.org>  
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au>  
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>  
Robin Eklind <r.eklind.87@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>  
Roland Shoemaker <rolandshoemaker@gmail.com>  
Ron Hashimoto <mail@h2so5.net>  
Ron Minnich <rminnich@gmail.com>  
Ross Light <light@google.com> <rlight2@gmail.com>  
Rowan Worth <sqweek@gmail.com>  
Rui Ueyama <rui@u@google.com>  
Russ Cox <rsc@golang.org>  
Russell Haering <russellhaering@gmail.com>  
Ryan Barrett <ryanb@google.com>  
Ryan Brown <ribrd@b@google.com>  
Ryan Hitchman <hitchmanr@gmail.com>  
Ryan Lower <rpjlower@gmail.com>  
Ryan Seys <ryan@ryanseys.com>  
Ryan Slade <ryanslade@gmail.com>  
S.alar Onur <caglar@10ur.org>  
Sai Cheemalapati <saicheems@google.com>  
Salmn Aljammz <s@0x65.net>  
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>  
Sanjay Menakuru <balasanjay@gmail.com>  
Sasha Lionheart <lionhearts@google.com>  
Sasha Sobol <sasha@scaledinference.com>  
Scott Barron <scott.barron@github.com>  
Scott Bell <scott@sctsm.com>  
Scott Ferguson <scottwferg@gmail.com>  
Scott Lawrence <bytbox@gmail.com>  
Scott Mansfield <smansfield@netflix.com>  
Scott Schwartz <scotts@golang.org>  
Scott Van Woudenberg <scottvw@google.com>  
Sean Burford <sburford@google.com>  
Sean Dolphin <Sean.Dolphin@kpccompass.com>  
Sean Harger <sharger@google.com>  
Sebastien Binet <seb.binet@gmail.com>  
Sbastien Paolacci <sebastien.paolacci@gmail.com>  
Sergei Skorobogatov <skorobo@rambler.ru>  
Sergey 'Snake' Gromov <snake.scaly@gmail.com>  
Sergey Arseev <sergey.arseev@intel.com>  
Sergio Luis O. B. Correia <sergio@correia.cc>  
Seth Hoenig <seth.a.hoenig@gmail.com>  
Seth Vargo <sethvargo@gmail.com>  
Shahar Kohanim <skohanim@gmail.com>

Shane Hansen <shanemhansen@gmail.com>  
Shaozhen Ding <dsz0111@gmail.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>  
Shinji Tanaka <shinji.tanaka@gmail.com>  
Shivakumar GN <shivakumar.gn@gmail.com>  
Shun Fan <sfan@google.com>  
Silvan Jegen <s.jegen@gmail.com>  
Simon Jefford <simon.jefford@gmail.com>  
Simon Thulbourn <simon+github@thulbourn.com>  
Simon Whitehead <chemnova@gmail.com>  
Sokolov Yura <funny.falcon@gmail.com>  
Spencer Nelson <s@spenczar.com>  
Spring Mc <heresy.mc@gmail.com>  
Srdjan Petrovic <spetrovic@google.com>  
Sridhar Venkatakrishnan <sridhar@laddoo.net>  
StalkR <stalkr@stalkr.net>  
Stan Schwertly <stan@schwertly.com>  
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>  
Stphane Travostino <stephane.travostino@gmail.com>  
Stephen Ma <stephenm@golang.org>  
Stephen McQuay <stephen@mcquay.me>  
Stephen Weinberg <stephen@q5comm.com>  
Steve McCoy <mccoyst@gmail.com>  
Steve Newman <snewman@google.com>  
Steve Phillips <elimistev@gmail.com>  
Steve Streeting <steve@stevestreeting.com>  
Steven Elliot Harris <seharris@gmail.com>  
Steven Hartland <steven.hartland@multiplay.co.uk>  
Sugu Sougoumarane <ssougou@gmail.com>  
Suharsh Sivakumar <suharshs@google.com>  
Sven Almgren <sven@tras.se>  
Szabolcs Nagy <nsz@port70.net>  
Tad Glines <tad.glines@gmail.com>  
Taj Khattrra <taj.khattrra@gmail.com>  
Takashi Matsuo <tmatsuo@google.com>  
Takeshi YAMANASHI <9.nashi@gmail.com>  
Tal Shprecher <tshprecher@gmail.com>  
Tamir Duberstein <tamird@gmail.com>  
Tarmigan Casebolt <tarmigan@gmail.com>  
Taru Karttunen <taruti@taruti.net>  
Tatsuhiko Tsujikawa <tatsuhiko.t@gmail.com>  
Tetsuo Kiso <tetsuokiso9@gmail.com>  
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>  
Thomas Alan Copeland <tal.copeland@gmail.com>  
Thomas Desrosiers <thomasdesr@gmail.com>

Thomas Habets <habets@google.com>  
Thomas Kappler <tkappler@gmail.com>  
Thorben Krueger <thorben.krueger@gmail.com>  
Tilman Dilo <tilman.dilo@gmail.com>  
Tim Cooijmans <timcooijmans@gmail.com>  
Tim Ebringer <tim.ebringer@gmail.com>  
Tim Hockin <thockin@google.com>  
Tim Swast <swast@google.com>  
Timo Savola <timo.savola@gmail.com>  
Timo Truys <alkaloid.btx@gmail.com>  
Timothy Studd <tim@timstudd.com>  
Tipp Moseley <tipp@google.com>  
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>  
Toby Burrell <kurin@google.com>  
Todd Neal <todd@tneal.org>  
Todd Wang <toddwang@gmail.com>  
Tom Bergan <tombergan@google.com>  
Tom Heng <zhm20070928@gmail.com>  
Tom Linfoord <tomlinfoord@gmail.com>  
Tom Szymanski <tgs@google.com>  
Tommy Schaefer <tommy.schaefer@teecom.com>  
Tor Andersson <tor.andersson@gmail.com>  
Tormod Erevik Lea <tormodlea@gmail.com>  
Totoro W <tw19881113@gmail.com>  
Travis Cline <travis.cline@gmail.com>  
Trevor Strohman <trevor.strohman@gmail.com>  
Trey Tacon <ttacon@gmail.com>  
Tristan Amini <tamini01@ca.ibm.com>  
Tudor Golubenco <tudor.g@gmail.com>  
Tyler Bunnell <tylerbunnell@gmail.com>  
Tyler Treat <ttreat31@gmail.com>  
Tzu-Jung Lee <roylee17@currant.com>  
Ugorji Nwoke <ugorji@gmail.com>  
Ulf Holm Nielsen <doktor@dyregod.dk>  
Ulrich Kunitz <uli.kunitz@gmail.com>  
Uriel Mangado <uriel@berlinblue.org>  
Uttam C Pawar <uttam.c.pawar@intel.com>  
Vadim Grek <vadimprog@gmail.com>  
Vadim Vygonets <unixdj@gmail.com>  
Vega Garcia Luis Alfonso <vegacom@gmail.com>  
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>  
Vlad Krasnov <vlad@cloudflare.com>  
Vladimir Nikishenko <vova616@gmail.com>

Volker Dobler <dr.volker.dobler@gmail.com>  
Wedson Almeida Filho <wedsonaf@google.com>  
Wei Guangjing <vcc.163@gmail.com>  
Will Chan <willchan@google.com>  
Will Norris <willnorris@google.com>  
Willem van der Schyff <willemvds@gmail.com>  
William Chan <willchan@chromium.org>  
William Josephson <wjosephson@gmail.com>  
William Orr <will@worrbase.com> <ay1244@gmail.com>  
Wisdom Omuya <deafgoat@gmail.com>  
Xia Bin <snyh@snyh.org>  
Xing Xing <mikespook@gmail.com>  
Xudong Zhang <felixmelon@gmail.com>  
Yan Zou <yzou@google.com>  
Yann Kerherv <yann.kerherve@gmail.com>  
Yao Zhang <lunaria21@gmail.com>  
Yasuharu Goto <matope.ono@gmail.com>  
Yasuhiro Matsumoto <mattn.jp@gmail.com>  
Yesudeep Mangalapilly <yesudeep@google.com>  
Yissakhar Z. Beck <yissakhar.beck@gmail.com>  
Yo-An Lin <yoanlin93@gmail.com>  
Yongjian Xu <i3dmaster@gmail.com>  
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>  
Yu Heng Zhang <annita.zhang@cn.ibm.com>  
Yu Xuan Zhang <zyxsh@cn.ibm.com>  
Yuki Yugui Sonoda <yugui@google.com>  
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>  
Zhongwei Yao <zhongwei.yao@arm.com>  
Ziad Hatahet <hatahet@gmail.com>  
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## 1.487 zap 1.15.0

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# 1.489 curl 7.68.0-1ubuntu2.12

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=====

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# 1.490 gorilla 1.8.0

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# 1.492 tar 1.29b 2ubuntu0.1

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# 1.493 cyrus-sasl 2.1.27~101-g0780600+dfsg

## 3ubuntu2

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* Rob Earhart  
* Rob Siemborski  
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# 1.494 viper 1.7.1

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## 1.497 go-ping-ping 1.1.0

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## 1.498 commons-lang3 3.7

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Written by: Philip Hazel

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# 1.505 grep 3.1 2build1

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```

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```

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```
@end display
```

```
@enumerate 0  
@item  
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```

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

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

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

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

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

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

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gfdl(7), fsf-funding(7).

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DRuntime: Runtime Library for the D Programming Language

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# 1.509 kerberos 1.17-6ubuntu4.1

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- \* /opt/cola/permits/1502180451\_1670524270.986335/0/protobuf-java-util-3-12-2-sources-1-jar/com/google/protobuf/util/TimeUtil.java

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# 1.515 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */
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Version 2, June 1991

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) The modified work must itself be a software library.
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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License.  
Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

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

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

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

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2009 Alan Jenkins <[alan-jenkins@tuffmail.co.uk](mailto:alan-jenkins@tuffmail.co.uk)>

2010 ProFUSION embedded systems

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1995-2004 Miquel van Smoorenburg

1999 Tom Tromey

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2005, 2006 SUSE Linux Products GmbH

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2009 Filippo Argiolas <filippo.argiolas@gmail.com>

2010 Maxim Levitsky

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## 1.527 logrus 1.8.1

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<pre>
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Little Color Management System  
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- doc/example/pcsc\_demo.c

- the files in src/spy/

- the files in UnitaryTests/

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## xwd v1.0.7

### xwd utility

<pre>

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list.h, multiVis.h, wsutils.h, list.c, multiVis.c

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```
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Hal Burch <gmock@hburch.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Jim Keller <jimkeller@google.com>  
Joe Walnes <joe@truemesh.com>  
Jon Wray <jwray@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kostya Serebryany <kcc@google.com>  
Lev Makhlis  
Manuel Klimek <klimek@google.com>  
Mario Tanev <radix@google.com>  
Mark Paskin  
Markus Heule <markus.heule@gmail.com>  
Matthew Simmons <simmonmt@acm.org>  
Mike Bland <mbland@google.com>  
Neal Norwitz <nnorwitz@gmail.com>  
Nermin Ozkiranartli <nermin@google.com>  
Owen Carlsen <ocarlsen@google.com>  
Paneendra Ba <paneendra@google.com>  
Paul Menage <menage@google.com>  
Piotr Kaminski <piotrk@google.com>  
Russ Rufer <russ@pentad.com>  
Sverre Sundsdal <sundsda@gmail.com>  
Takeshi Yoshino <tyoshino@google.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Wolfgang Klier <wklier@google.com>  
Zhanyong Wan <wan@google.com>

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

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Gallium code	src/gallium/	MIT

Ext headers GL/glext.h Khronos  
GL/glxext.h Khronos  
GL/wglext.h Khronos  
KHR/khrplatform.h Khronos

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Mesa 3-D graphics library

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include/GL/glxext.h  
include/GL/wglxext.h :

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...

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```

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//go:build go1.18
// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
    "go/ast"
    "go/parser"
    "go/token"
    "io/fs"
    "io/ioutil"
    "path/filepath"
    "regexp"
    "strings"
)

func checkCopyright(dir string) ([]string, error) {
    var files []string
    err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
        if err != nil {
            return err
        }
        if d.IsDir() {
            // Skip directories like ".git".
            if strings.HasPrefix(d.Name(), ".") {
                return filepath.SkipDir
            }
            // Skip any directory that starts with an underscore, as the go
            // command would.
            if strings.HasPrefix(d.Name(), "_") {
                return filepath.SkipDir
            }
        }
        return nil
    })
    needsCopyright, err := checkFile(dir, path)
    if err != nil {
        return err
    }
    if needsCopyright {
        files = append(files, path)
    }
    return files, nil
}
```

```
)  
return files, err  
}
```

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.  
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license that can be found in the LICENSE file.`)

```
func checkFile(toolsDir, filename string) (bool, error) {  
    // Only check Go files.  
    if !strings.HasSuffix(filename, ".go") {  
        return false, nil  
    }  
    // Don't check testdata files.  
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))  
    if strings.Contains(normalized, "/testdata/") {  
        return false, nil  
    }  
    // goyacc is the only file with a different copyright header.  
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {  
        return false, nil  
    }  
    content, err := ioutil.ReadFile(filename)  
    if err != nil {  
        return false, err  
    }  
    fset := token.NewFileSet()  
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)  
    if err != nil {  
        return false, err  
    }  
    // Don't require headers on generated files.  
    if isGenerated(fset, parsed) {  
        return false, nil  
    }  
    shouldAddCopyright := true  
    for _, c := range parsed.Comments {  
        // The copyright should appear before the package declaration.  
        if c.Pos() > parsed.Package {  
            break  
        }  
        if copyrightRe.MatchString(c.Text()) {  
            shouldAddCopyright = false  
            break  
        }  
    }  
    return shouldAddCopyright, nil  
}
```

```

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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//go:generate ./gen-licenses.sh licenses.go  
package hooks

const licensesText = `  
-- github.com/BurntSushi/toml COPYING --

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// +build go1.18

package copyright

import (

  "os"

  "path/filepath"

  "strings"

  "testing"

)

func TestToolsCopyright(t \*testing.T) {

  cwd, err := os.Getwd()

  if err != nil {

    t.Fatal(err)

  }

  tools := filepath.Dir(cwd)

  if !strings.HasSuffix(filepath.Base(tools), "tools") {

    t.Fatalf("current working directory is %s, expected tools", tools)

  }

  files, err := checkCopyright(tools)

  if err != nil {

    t.Fatal(err)

  }

  if len(files) > 0 {

    t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))

  }

}

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package hooks

import (

  "bytes"

  "io/ioutil"

```

"os/exec"
"runtime"
"testing"

"github.com/jhump/golang-x-tools/internal/testenv"
)

func TestLicenses(t *testing.T) {
// License text differs for older Go versions because staticcheck isn't
// supported for those versions.
testenv.NeedsGo1Point(t, 15)

if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
t.Skip("generating licenses only works on Unixes")
}
tmp, err := ioutil.TempFile("", "")
if err != nil {
t.Fatal(err)
}
tmp.Close()

if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
t.Fatalf("generating licenses failed: %q, %v", out, err)
}

got, err := ioutil.ReadFile(tmp.Name())
if err != nil {
t.Fatal(err)
}
want, err := ioutil.ReadFile("licenses.go")
if err != nil {
t.Fatal(err)
}
if !bytes.Equal(got, want) {
t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
}
}
}

```

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## 1.537 kubernetes-component-base 0.0.0

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## 1.539 libgpg-error 1.37 1

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```
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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
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
Copyright (c) 2019 mruby developers
```

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## 1.542 go.uber.org/atom 1.7.0

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## 1.543 etcd 3.3.15+incompatible

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#  
src/base/fthash.c  
src/base/md5.c  
src/base/md5.h  
#  
src/bdf/bdf.c  
src/bdf/bdf.h  
src/bdf/bdfdrivr.c  
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#  
src/zip/adler32.c  
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src/zip/infblock.h  
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src/zip/infcodes.h  
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src/zip/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
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## xwd v1.0.7

### xwd utility

<pre>

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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>

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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 Arbeo <serabe@gmail.com>

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

Tamir Duberstein <tamird@gmail.com>

Todd Eisenberger <teisenberger@dropbox.com>

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# 1.551 asm 4.1

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*/
/**
 * Constructs a new {@link ClassNode}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #ClassNode(int)}
 * version.
 */

```

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* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/shrink-
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\* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-  
jar/org/objectweb/asm/commons/package.html  
\* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/util/package.html  
\* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/attrs/package.html



\* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/package.html

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- \*/
- /\*\*
- \* Creates a new {[AnalyzerAdapter](#)}. *<i>Subclasses must not use this*
- \* *constructor</i>. Instead, they must use the*
- \* {[AnalyzerAdapter\(int, String, int, String, String, MethodVisitor\)](#)}
- \* version.
- \*
- \* @param owner
- \* the owner's class name.
- \* @param access
- \* the method's access flags (see {[Opcodes](#)}).
- \* @param name
- \* the method's name.
- \* @param desc
- \* the method's descriptor (see {[Type Type](#)}).
- \* @param mv
- \* the method visitor to which this adapter delegates calls. May
- \* be `<tt>null</tt>`.
- \*/

Found in path(s):

- \* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-
- jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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 \*/  
 /\*\*  
 \* Creates a new JSRInliner. *<i>Subclasses must not use this  
 \* constructor</i>. Instead, they must use the  
 \* { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}  
 \* version.  
 \*  
 \* @param mv  
 \* the `MethodVisitor` to send the resulting inlined  
 \* method code to (use `null` for none).  
 \* @param access  
 \* the method's access flags (see { @link Opcodes}). This  
 \* parameter also indicates if the method is synthetic and/or  
 \* deprecated.  
 \* @param name  
 \* the method's name.  
 \* @param desc  
 \* the method's descriptor (see { @link Type}).  
 \* @param signature  
 \* the method's signature. May be `null`.  
 \* @param exceptions  
 \* the internal names of the method's exception classes (see  
 \* { @link Type#getInternalName() getInternalName}). May be  
 \* `null`.*

\*/

Found in path(s):

\* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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- \* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
- \* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
- \* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
- \* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
- \* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/xml/SAXClassAdapter.java
- \* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/xml/ASMContentHandler.java

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\*/

/\*\*

\* Creates a new { @link GeneratorAdapter}. *<i>*Subclasses must not use this  
\* constructor*</i>*. Instead, they must use the  
\* { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}  
\* version.  
\*  
\* @param mv  
\* the method visitor to which this adapter delegates calls.  
\* @param access  
\* the method's access flags (see { @link Opcodes}).  
\* @param name  
\* the method's name.  
\* @param desc  
\* the method's descriptor (see { @link Type Type}).  
\*/

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\* /opt/cola/permits/1135985768\_1613646771.95/0/asm-4-1-sources-1-  
jar/org/objectweb/asm/commons/GeneratorAdapter.java

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```
*/
/**
 * Constructs a new {@link Textifier}. Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 */
```

Found in path(s):

```
* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/util/Textifier.java
```

# 1.552 afero 1.6.0

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

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# 1.559 coreutils 8.30 3ubuntu2

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# 1.561 grpc-gateway 1.16.0

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\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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## 1.567 sqlite 3.22.0-1ubuntu0.6

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## 1.568 prometheus-procfs 0.7.2

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

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# 1.569 gorilla 1.4.2

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## 1.571 k-sone-critbitgo 1.4.0

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Other contributors include:

Anthony Towns <ajt@debian.org>  
David Whedon <dwhedon@gordian.com>  
Dan Jacobowitz <dan@debian.org>  
Tollef Fog Heen <tfheen@debian.org>  
Attilio Fiandrotti <fiandro@tiscali.it>  
Colin Watson <cjwatson@debian.org>  
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## 1.574 man-pages 5.05-1

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```
#!/bin/sh
#
# find_dot_no_parens.sh
#
# Look for function names after /^[BIR]/ that aren't
# followed by "()".
#
# This script is designed to help with "by hand" tidy-ups after
# the automated changes made by add_parens_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where
# 'man2' and 'man3' subdirectories can be found. The pages names in
# these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
# cd man-pages-x.yy
# sh find_dots_no_parens.sh . man?/*.*? > matches.log
#
```

#####

#

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## 1.576 zlib 1.2.11.dfsg 0ubuntu2

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Files: lib/compat/md5.\*

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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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*/
```

Found in path(s):

```
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/NodeType.java  
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
```

jar/com/flipkart/zjsonpatch/JsonDiff.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/NoopProcessor.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/ApplyProcessor.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/Constants.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/CompatibilityFlags.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/JsonPatchApplicationException.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/JsonPatchProcessor.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/InvalidJsonPatchException.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/Operation.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-  
jar/com/flipkart/zjsonpatch/JsonPatch.java  
\* /opt/cola/permits/1257333041\_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Diff.java

# 1.583 curl 7.58.0 2ubuntu3.7

## 1.583.1 Available under license :

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=====

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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.  
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## 1.584 compatibility-tests 2.5.0

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Found in path(s):

```
* /opt/cola/permits/1411677383_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/com/google/protobuf/non_nested_extension_lite.proto  
* /opt/cola/permits/1411677383_1672901718.9443603/0/v2-5-0-1-tar-
```



gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_mset.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_optimize\_for.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DynamicMessageTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_import\_lite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_no\_generic\_services.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_lite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ParserTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/UnknownFieldSetTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_custom\_options.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/descriptor.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_lite\_imports\_nonlite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/com/google/protobuf/nested\_extension.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TestUtil.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/GeneratedMessageTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/RopeByteStringSubstringTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/com/google/protobuf/nested\_builders\_test.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/CodedInputStreamTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_embed\_optimize\_for.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DescriptorsTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TestBadIdentifiers.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/descriptor.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/com/google/protobuf/non\_nested\_extension.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/AbstractMessageTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-

gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/CodedOutputStreamTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ForceFieldBuildersPreRun.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/WireFormatTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LiteralByteStringTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_enormous\_descriptor.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_lite\_imports\_nonlite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ServiceTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LazyStringEndToEndTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_import\_lite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/NestedBuildersTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/non\_nested\_extension.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_import.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_import\_public\_lite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_mset.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/test\_bad\_identifiers.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_empty.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/BoundedByteStringTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/UnmodifiableLazyStringListTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_import.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_import\_public.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/nested\_extension.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/nested\_builders\_test.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/RopeByteStringTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_no\_generic\_services.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-

gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_empty.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/nested\_extension\_lite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_custom\_options.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_enormous\_descriptor.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_lite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TextFormatTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/MessageTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/multiple\_files\_test.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_embed\_optimize\_for.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_optimize\_for.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_import\_public\_lite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/com/google/protobuf/multiple\_files\_test.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_import\_public.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DeprecatedFieldTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LazyStringArrayListTest.java  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/non\_nested\_extension\_lite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/com/google/protobuf/test\_bad\_identifiers.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/com/google/protobuf/nested\_extension\_lite.proto  
\* /opt/cola/permits/1411677383\_1672901718.9443603/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ByteStringTest.java

## 1.585 pam 1.1.8 3.6ubuntu2

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-----  
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam\_motd/pam\_motd.c

```
=====
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}
```

```
+int display_legal(pam_handle_t *pamh)
```

```

+{
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+     PAM_MODUTIL_DEF_PRIVS(privs);
+
+     /* Get the password entry */
+     pwd = pam_modutil_getpwnam (pamh, user);
+     if (pwd != NULL)
+     {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+             pam_syslog(pamh, LOG_ERR,
+                 "Unable to change UID to %d temporarily\n",
+                 pwd->pw_uid);
+             retval = PAM_SESSION_ERR;
+             goto finished;
+         }
+
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+             goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+             goto finished;
+
+         if (stat(flag, &s) != 0)
+         {
+             display_file(pamh, "/etc/legal");
+             mkdir(dir, 0700);
+             f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                 S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+             if (f>=0) close(f);
+         }
+
+     }
+
+finished:
+     if (pam_modutil_regain_priv(pamh, &privs)) {
+         pam_syslog(pamh, LOG_ERR,
+             "Unable to change UID back to %d\n", privs.old_uid);
+         retval = PAM_SESSION_ERR;
+     }
+
+     _pam_drop(flag);

```

```

+     _pam_drop(dir);
+ }
+ }
+ return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
    return retval;
}

```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from <ftp://ftp.kernel.org/pub/linux/libs/pam/pre/>

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## 1.586 kr-text 0.2.0

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## 1.589 libidn 2.2.0 2

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```
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Marc Stevens

Cryptology Group

Centrum Wiskunde & Informatica

P.O. Box 94079, 1090 GB Amsterdam, Netherlands

marc@marc-stevens.nl

Dan Shumow

Microsoft Research

danshu@microsoft.com

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\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_optimize\_for.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/RopeByteStringSubstringTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/non\_nested\_extension.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_custom\_options.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/WireFormatTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/MessageTest.java  
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\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_import\_lite.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/RopeByteStringTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ServiceTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/non\_nested\_extension\_lite.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/nested\_extension.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_import\_public.proto  
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\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/CodedOutputStreamTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ParserTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/CodedInputStreamTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/non\_nested\_extension.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_import\_public.proto

\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LiteralByteStringTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_empty.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/UnknownFieldSetTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_lite\_imports\_nonlite.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LazyStringEndToEndTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_mset.proto  
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\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TestBadIdentifiers.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/UnmodifiableLazyStringListTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_custom\_options.proto  
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\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/NestedBuildersTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_optimize\_for.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DeprecatedFieldTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/descriptor.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/nested\_builders\_test.proto  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_embed\_optimize\_for.proto  
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\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DynamicMessageTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DescriptorsTest.java  
\* /opt/cola/permits/1411677329\_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/multiple\_files\_test.proto

# 1.594 apr-util 1.6.1 2

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From strings/apr\_fnmatch.c, include/apr\_fnmatch.h, misc/unix/getopt.c, file\_io/unix/mktemp.c, strings/apr\_strings.c:

```
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```

From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

```
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 *
```

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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The following was received February 23, 2000 From: "Linn, John" February 19, 2000

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## 1.605 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](http://github.com/bvandenbos/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

# 1.606 open-ldap 2.4.45+dfsg-1ubuntu1.3

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Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>

Jeff Dean <jeff@google.com>

Daniel Dulitz <daniel@google.com>

Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>

Petar Petrov <petar@google.com>

Java Nano primary authors:

Brian Duff <bduff@google.com>

Tom Chao <chaot@google.com>

Max Cai <maxtroy@google.com>

Ulas Kirazci <ulas@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>

Joseph Schorr <jschorr@google.com>

Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>  
Frank Yellin  
Neal Norwitz <nnorwitz@google.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ambrose Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>  
\* Small patch to handle trailing slashes in --proto\_path flag.

Johan Euphrosine <proppy@aminche.com>  
\* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>  
\* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>  
\* VI syntax highlighting tweaks.  
\* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>  
\* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>  
\* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>  
\* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>  
\* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>  
\* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>  
\* MS Visual Studio error format option.  
\* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>  
\* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>  
\* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).  
\* Added generation of field number constants.

Wink Saville <wink@google.com>  
\* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>  
\* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>  
\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>  
\* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>  
\* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>  
\* Detect whether zlib is new enough in configure script.  
\* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>  
\* Optimize Java serialization code when writing a small message to a stream.  
\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
\* Clean up some Java warnings.  
\* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>  
\* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>  
\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>  
\* Fixed detection of sched\_yield on Solaris.  
\* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>  
\* Fixed minor IBM xLC compiler build issues  
\* Added atomicops for AIX (POWER)

# 1.608 libseccomp 2.5.1-1ubuntu1~20.04.2

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## 1.609 pkg-sftp 1.13.2

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# 1.612 e2fsprogs 1.44.1 1ubuntu1.1

## 1.612.1 Available under license :

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>.

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\*/

Index: tdbsa/tdb.c

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

+++ tdbsa/tdb.c

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

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

\*/

/\*

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

- trivial database library - private includes

-

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Theodore Ts'o  
23-June-2007

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```
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```
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That's all there is to it!

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

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

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

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

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

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

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#

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

#

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

#

```

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

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

```

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

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

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Gadi Oxman, August 1995

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```

```
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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

## 1.615 viper 1.8.1

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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>

Walter Schulze <awalterschulze@gmail.com>

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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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abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <[kwilliams@cpan.org](mailto:kwilliams@cpan.org)>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <[module-build@perl.org](mailto:module-build@perl.org)>."

build\_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated\_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

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```

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

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

```
This program is free software; you can redistribute it and/or modify  
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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

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

```
=cut
```

```
use strict;
```

```
use Config;
```

```
BEGIN { require './test.pl' }
```

```
if ( $Config{usecrosscompile} ) {
```

```
    skip_all( "Not all files are available during cross-compilation" );
```

```
}
```

```
my ($opt) = @ARGV;
```

```
my $readme_year = readme_year();
```

```
my $v_year = v_year();
```

```
# Check that both copyright dates are up-to-date, but only if requested, so
```

```
# that tests still pass for people intentionally working on older versions:
```

```
if ($opt eq '--now')
```

```
{
```

```
    my $current_year = (gmtime)[5] + 1900;
```

```
    is $v_year, $current_year, 'perl -v copyright includes current year';
```

```
    is $readme_year, $current_year, 'README copyright includes current year';
```

```
}
```

```
# Otherwise simply check that the two copyright dates match each other:
```

```
else
```

```
{
```

```
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
```

```
}
```

```
done_testing;
```

```
sub readme_year
```

```
# returns the latest copyright year from the top-level README file
```

```
{
```

```
    open my $readme, '<', './README' or die "Opening README failed: $!";
```

```
# The copyright message is the first paragraph:
```

```

local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /\.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}

```

# 1.621 Iz4 0.0~r131-2ubuntu3.1

## 1.621.1 Available under license :

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Version 2, June 1991

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```
io.fabric8.kubernetes.client.URLFromEnvVarsImpl  
io.fabric8.kubernetes.client.URLFromIngressImpl  
io.fabric8.kubernetes.client.URLFromNodePortImpl
```

Found in path(s):

```
* /opt/cola/permits/1263516747_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/META-  
INF/services/io.fabric8.kubernetes.client.ServiceToURLProvider
```

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Found in path(s):

\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/resource-handler.vm  
\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/resource-operation.vm  
\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/resource-handler-services.vm

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io.fabric8.kubernetes.client.AppsAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.AutoscalingAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.BatchAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.ExtensionsAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.NetworkAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.PolicyAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.RbacAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.SchedulingAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.SettingsAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.StorageAPIGroupExtensionAdapter

Found in path(s):

\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ExtensionAdapter

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\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/META-INF/maven/io.fabric8/kubernetes-client/pom.xml

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Found in path(s):

\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/io.fabric8/kubernetes/client/dsl/internal/DeploymentRollingUpdater.java

\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/io.fabric8/kubernetes/client/dsl/internal/RoleBindingOperationsImpl.java

\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/io.fabric8/kubernetes/client/dsl/StorageAPIGroupDSL.java

\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/io.fabric8/kubernetes/client/handlers/PodDisruptionBudgetHandler.java

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\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-  
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\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-  
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\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-  
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\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-  
jar/io/fabric8/kubernetes/client/handlers/PodSecurityPolicyHandler.java  
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\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-  
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\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-  
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\* /opt/cola/permits/1263516747\_1643662729.3/0/kubernetes-client-4-6-3-sources-  
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jar/io/fabric8/kubernetes/client/dsl/internal/RollingOperationContext.java

# 1.625 openssl 1.0.2j

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

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

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

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Version 3, 29 June 2007

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```
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#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

```
* DNS resolver (dirmngr/dns.c)
```

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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## 1.636 apr 1.6.3 2

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```
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```
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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

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# 1.639 go-autorest-logging 0.2.0

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## 1.641 fwd 1.1.1

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## 1.643 sqlite 3.22.0-1

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Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/rtree.html

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```
<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
```



# SQLite Consortium Agreement

This SQLite Consortium Agreement ("Agreement") is made and entered into as of the \_\_\_\_ day of \_\_\_\_\_, 2007 ("Effective Date") by and between \_\_\_\_\_ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at <http://www.sqlite.org> ("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

## 1.0 Definitions

### 1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

### 1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

### <h3>1.3 Consortium Member</h3>

<p>A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.  
</p>

## <h2>2.0 Agreement</h2>

### <h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

#### <h4>2.1.1 General Support</h4>

<p>The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.  
</p>

#### <h4>2.1.2 Debugging Support</h4>

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.  
</p>

#### <h4>2.1.3 Custom Development</h4>

<p>The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.  
</p>

#### <h4>2.1.4 Custom Builds</h4>

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.  
</p>

#### <h4>2.1.5 Legacy Support</h4>

<p>The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.  
</p>

#### <h4>2.1.6 Custom Testing</h4>

<p>The SQLite Developers shall at Company's request set up and run

acceptance tests according to Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

#### 2.1.7 Priority Bug Fixes

The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

#### 2.1.8 Code Quality

The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

#### 2.1.9 Backwards Compatibility

The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

#### 2.1.10 Test Coverage

The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

#### 2.1.11 Website

The SQLite Developers shall maintain the SQLite website at <http://www.sqlite.org> in good working order and all SQLite source code shall be made freely available at such website.

### 2.2 Responsibilities And Obligations Of The SQLite Architect

#### 2.2.1 Private Briefings

The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might affect Company's products.

#### <h4>2.2.2 Direction</h4>

<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.</p></p>

#### <h4>2.2.3 Oversight</h4>

<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.</p></p>

#### <h4>2.2.4 Continuity</h4>

<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.</p></p>

### <h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

#### <h4>2.3.1 Employer</h4>

<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p></p>

#### <h4>2.3.2 Responsible Party</h4>

<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p></p>

#### <h4>2.3.3 Multiple Developers</h4>

<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p></p>

#### <h4>2.3.4 Mentorship</h4>

<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a

pool of talent able to support SQLite in the future.

</p>

#### <h4>2.3.5 Audits</h4>

<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

</p>

#### <h4>2.3.6 Disaster Planning</h4>

<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

</p>

#### <h4>2.3.7 Trademark</h4>

<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> website.

</p>

#### <h4>2.3.8 No Take-overs or Buy-outs</h4>

<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

</p>

#### <h4>2.3.9 New Consortium Members</h4>

<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

#### <h4>2.3.10 Adequate Staff</h4>

Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance

and extension of SQLite.

</p>

#### <h4>2.3.11 Use Of Funds</h4>

<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement.

Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

</p>

### <h3>2.4 Responsibilities And Obligations Of Company</h3>

#### <h4>2.4.1 Funding</h4>

<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

</p>

#### <h4>2.4.2 Copyright Disclaimer</h4>

<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.

</p>

## <h2>3.0 Fees</h2>

<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US \$75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

## <h2>4.0 Confidentiality</h2>

### <h3>4.1 Definition of Confidential Information</h3>

<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

### <h3>4.2 Non-Use and Non-Disclosure.</h3>

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

#### 4.2.1 Disclosure Required by Law

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

### 4.3 Return of Materials.

Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

## 5.0 Intellectual Property

### <h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

### <h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

### <h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

### <h2>6.0 Representations And Warranties</h3>



### <h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

### <h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

## <h2>7.0 Term And Termination</h2>

### <h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

### <h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

### <h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

## <h2>8. Miscellaneous</h2>

### <h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

### <h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

### <h3>8.3 Waiver.</h3>

<p>Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

### <h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

### <h3>8.5 Integration.</h3>

<p>This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.</p>

### <h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

### <h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>

### <h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.</p>

## <h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to indicate their acceptance of its terms.</p>

<table width="100%" border="0">

<tr><td valign="top">

HWACI<br>

By:<hr>

<p>&nbsp;</p>

Print Name:<hr>

<p>&nbsp;</p>

Title:<hr>

<p>&nbsp;</p>

</td><td width="10%"></td>

<td valign="top">

COMPANY<br>

By:<hr>

<p>&nbsp;</p>

Print Name:<hr>

<p>&nbsp;</p>

Title:<hr>

<p>&nbsp;</p>

</td></tr></table>

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/consortium\_agreement-20071201.html

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

<li> <a href='copyright.html'>Public domain source code</a>

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/about.html

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

other proprietary or non-standard VFSes.

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/uri.html

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

application is free to use the same <a href="#sqlite3">database connection</a> or the

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/capi3ref.html

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

## <h2>Proprietary SQLite Extensions</h2>

<a href="copyright.html">public domain</a>. But there also exist proprietary, licensed extensions to SQLite.</p>

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/support.html

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

application is free to use the same <a href="..c3ref/sqlite3.html">database connection</a> or the

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/c3ref/c\_config\_covering\_index\_scan.html

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

<dd><p>The psow query parameter works with the default windows and unix VFSEs but might be a no-op for other proprietary or non-standard VFSEs.

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/requirements.html

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

SQLite is open source, and is available in the public domain

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/books.html

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

SQLite is in the public domain. This document describes what that means

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/docs.html

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

## <h2>SQLite Is Public Domain</h2>

<a href="http://en.wikipedia.org/wiki/Public\_Domain">Public Domain</a>

<a href="http://en.wikipedia.org/wiki/Public\_Domain">public domain</a>

the public domain and originals of

author, and all of those authors have public domain dedications

Even though SQLite is in the public domain and does not require

the public domain. </li>

their contributions to the public domain.

in this code to the public domain. We make this dedication for the benefit

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/copyright.html

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

is free to use SQLite from multiple threads, but it must make sure

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/custombuild.html

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

[public domain](copyright.html). No claim of ownership is made

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/faq.html

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

If  $N > 0$  then the connection is free to use more of the WAL file beyond

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/walformat.html

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

SQLite core and like the SQLite core are in the public domain. The

The **[TH3](th3.html)** test harness is a set of proprietary tests, written in

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/testing.html

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

[public domain](copyright.html) and so most

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/famous.html

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

application code is free to use these routines as well, if desired.

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/34to35.html

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

- Sources are in the [public domain](copyright.html).

or some proprietary format into

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/features.html

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

SQLite is high-quality, public domain software. The goal of

members can also request their own private, proprietary extensions

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/consortium.html

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

without a shared lock, other processes are free to modify the database

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/atomiccommit.html

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

data, so do not send the ".fullschema" output of a proprietary database

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/cli.html

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

<p><b>Public domain</b></p>

The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/different.html

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

<p>SQLite itself is in the <a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/th3.html

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

access to all proprietary extensions and test suites.

access to all proprietary extensions and test suites.

<a href="https://www.sqlite.org/copyright.html">public domain</a>,</p>

Found in path(s):

\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/prosupport.html

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

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<p>FOR IMMEDIATE RELEASE:</p>

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>

<p><b>Charlotte, North Carolina - December 12, 2007</b> - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.</p>

<p>SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.</p>

<p>The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.</p>

<p>Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.</p>

<p>"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."</p>

<p>"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development, " said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."</p>

<p>SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, <http://www.sqlite.org/>.</p>

<center>  
###  
</center>



<p><b>About SQLite</b></p>

<p>SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.</p>

<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

<p>

CONTACT INFORMATION:<br>

SQLite Consortium<br>

Dr. D. Richard Hipp<br>

6200 Maple Cove Lane<br>

Charlotte, NC 28269<br>

Email: drh@sqlite.org<br>

<http://www.sqlite.org><br>

Tel: +1.704.948.4565

</p>

<p><b>About Mozilla</b></p>

<p>Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit [www.mozilla.com](http://www.mozilla.com).</p>

<p>CONTACT INFORMATION:<br>

Mozilla Corporation<br>

Jessica Waight<br>

Tel: +1.415.345.4754<br>

Email: [jwaight@outcastpr.com](mailto:jwaight@outcastpr.com)

</p>

<p><b>About Symbian Limited</b></p>

<p>Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.</p>

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit [www.symbian.com](http://www.symbian.com).</p>

<p>CONTACT INFORMATION:<br>

Symbian Global Press Office<br>

Karen Hamblen<br>

+44 207 154 1707<br>

[press@symbian.com](mailto:press@symbian.com)

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/pressrelease-20071212.html

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

public domain.</li>

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\* /opt/cola/permits/1147362671\_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/changes.html

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

<html>

<title>SQLite Copyright Release Template</title>

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<h1 align="center">

Copyright Release for<br>

Contributions To SQLite

</h1>

<p>

SQLite is software that implements an embeddable SQL database engine.

SQLite is available for free download from <http://www.sqlite.org/>.

The principal author and maintainer of SQLite has disclaimed all copyright interest in his contributions to SQLite

and thus released his contributions into the public domain.

In order to keep the SQLite software unencumbered by copyright

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

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

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## 1.659 kerberos 1.17-6ubuntu4.1

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cmd/krb5/iproplib/iproplib.x
cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_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/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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Special thanks are due to Chip Rosenthal for his fine testing efforts;  
to Steve Simmons for his work in porting this code to BSD; and to Bill  
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by Dr. Michael Newberry (miken@cs.adfa.oz.au) and Micheal J. Miller, Jr. (mke@kaber.drain.com). Effort in porting to AT&T UNIX System V Release 4 has been provided by Andrew Herbert (andrew@werple.pub.uu.oz.au). Special thanks to Marek Michalkiewicz (marekm@i17linuxb.ists.pwr.wroc.pl) for taking over the Linux port of this software.

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## 1.661 linux-atm 2.5.1-2build1

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/\*

\* Marko Kiiskila carnil@cs.tut.fi

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```
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```

```
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# 1.662 libseccomp 2.3.1-2.1ubuntu4

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Version 2.1, February 1999

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## 1.665 victoriametrics-metrics 1.17.2

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name: license-check

on:

push:

paths:

- 'vendor'

pull\_request:

paths:

- 'vendor'

permissions:

contents: read

jobs:

build:

name: Build

runs-on: ubuntu-latest

steps:

- name: Setup Go

uses: actions/setup-go@main

with:

go-version: 1.18

```
id: go
- name: Code checkout
  uses: actions/checkout@master
- name: Check License
  run: |
    make check-licenses
```

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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>
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2011 Philipp Marek <philipp.marek@linbit.com>  
2012 Milan Broz <mbroz@redhat.com>  
2013 Alejandro Martinez Ruiz <alex@nowcomputing.com>  
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## 1.667 error\_prone\_annotations 2.1.3

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```
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* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
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\* /opt/cola/permits/1112636230\_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java  
\* /opt/cola/permits/1112636230\_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java  
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\* /opt/cola/permits/1112636230\_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/DoNotMock.java  
\* /opt/cola/permits/1112636230\_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/CompatibleWith.java  
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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>

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Written by: Philip Hazel  
Email local part: ph10  
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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>

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John Shahid <jvshahid@gmail.com>

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Laurent <laurent@adyoulike.com>

Patrick Lee <patrick@dropbox.com>

Peter Edge <peter.edge@gmail.com>

Roger Johansson <rogersalsing@gmail.com>

Sam Nguyen <sam.nguyen@sendgrid.com>

Sergio Arbo <serabe@gmail.com>

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

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# 1.678 protobuf-java 3.12.2

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

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

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

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

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is

analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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



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Version 2.1, February 1999

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

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

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

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

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

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

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

```
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```

```
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```
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This is free software, and you are welcome to redistribute it
```

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

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Version 3, 29 June 2007

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