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Text Part Number: 78EE117C99-1489109632

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1.553 libseccomp 2.5.1-1ubuntu1~18.04.1
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1.554.1 Available under license
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```

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```
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Upstream-Contact: Werner Koch <wk@gnupg.org>
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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
src/w32-types.inc.h
src/w32ce-add.h
src/w32ce-fd-t.inc.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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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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lib/csharp/src/Protocol/TField.cs
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lib/csharp/src/Protocol/TMessage.cs
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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
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lib/st/README
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test/OptionalRequiredTest.cpp
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bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

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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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#

Names should be added to this file as

Name or Organization <email address>

#

The email address is not required for organizations.

#

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>

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1.4 init-system-helpers 1.51

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1.5 go-units 0.4.0

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1.6 zlib 1.2.11.dfsg-0ubuntu2.2

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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

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/* 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
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```
/* 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.
*/
```

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* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/crc32.c
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```
/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

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

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Changes

See header of zip.h

*/

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

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/* 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

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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/trees.c

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/* deflate.h -- internal compression state

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

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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/deflate.h

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

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

*/

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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/gzappend.c

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/* compress.c -- compress a memory buffer

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

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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/compress.c

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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

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

CYGIN1.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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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.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

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/* 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

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/*

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

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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/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
```

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

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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2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
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

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 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.

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

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

Condition of use and distribution are the same than zlib :

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2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

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

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

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

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

Found in path(s):

```
* /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). 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 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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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

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

Found in path(s):

* /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
```

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```
/* 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
```

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```
/* 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

*/

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.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

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/*

* gzlog.c

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

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

* version 2.2, 14 Aug 2012

*/

Found in path(s):

* /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>

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It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, David Engel <david@elo.ods.com>. Michael Alan Dorman <mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup <jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.

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1.8 kubernetes-model-common 4.6.3

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 */
```

Found in path(s):

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

* /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

1.9.1 Available under license :

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1.10 grpc-ecosystem-go-grpc-middleware

1.2.2

1.10.1 Available under license :

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```
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Copyright (C) <year> <name of author>
```

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=====

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

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<http://tukaani.org/xz/lists.html>

Source:

<http://tukaani.org/xz>

<http://git.tukaani.org/xz.git>

Comment:

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Files: *

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2003, Kevin Springle

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Comment:

From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

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

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

.
[...]

.
> AUTHORS, ChangeLog, COPYING, README, THANKS, TODO,
> dos/README, windows/README

.
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.
I don't dare to say that `_all_` XZ Utils specific docs are in the public

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Files: INSTALL NEWS PACKAGERS

windows/README-Windows.txt

windows/INSTALL-Windows.txt

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Files: src/scripts/* lib/* extra/scanlзма/scanlзма.c

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2005, Charles Levert

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Other-Authors: Paul Eggert, Ulrich Drepper

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Files: src/scripts/Makefile.am src/scripts/xzless.1

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Files: lib/getopt.c lib/getopt1.c lib/getopt.in.h

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Files: m4/getopt.m4 m4/posix-shell.m4

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Other-Authors: Bruno Haible, Paul Eggert

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Files: m4/acx_pthread.m4

Copyright: 2008, Steven G. Johnson <stevenj@alum.mit.edu>

License: Autoconf

Files: Doxyfile.in

Copyright: 1997-2007 by Dimitri van Heesch

Origin: Doxygen 1.4.7

License: GPL-2

Files: src/liblzma/check/crc32_table_?e.h

src/liblzma/check/crc64_table_?e.h

src/liblzma/lzma/fastpos_table.c

src/liblzma/rangecoder/price_table.c

Copyright: none, automatically generated data

Generated-With:

src/liblzma/check/crc32_tablegen.c

src/liblzma/check/crc64_tablegen.c

src/liblzma/lzma/fastpos_tablegen.c

src/liblzma/rangecoder/price_tablegen.c

License: none

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Files: .gitignore m4/.gitignore po/.gitignore po/LINGUAS po/POTFILES.in

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Copyright: 2008-2009, Lasse Collin

Source-Code: tests/bcj_test.c

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Comment:

changelog.gz (commit 975d8fd) explains:

.

Recreated the BCJ test files for x86 and SPARC. The old files were linked with crt*.o, which are copyrighted, and thus the old test files were not in the public domain as a whole. They are freely distributable though, but it is better to be careful and avoid including any copyrighted pieces in the test files. The new files are just compiled and assembled object files, and thus don't contain any copyrighted code.

Files: po/cs.po po/de.po po/fr.po

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2011, Adrien Nader

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2009, 2010, 2011, Milo Casagrande
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Files: INSTALL.generic

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Files: dos/config.h

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

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

License: config-h

configure.ac:

```
.  
# Author: Lasse Collin  
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.  
visibility.m4:  
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.  
dnl From Bruno Haible.  
.  
comments from Autoconf 2.52g:  
.  
# Copyright 1992, 1993, 1994, 1999, 2000, 2001, 2002  
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.  
[...]  
.  
# As a special exception, the Free Software Foundation gives unlimited
```

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that constitutes the Autoconf program.

.
On Debian systems, the complete text of the GNU General Public
License version 2 can be found in /usr/share/common-licenses/GPL-2.
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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```

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

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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
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Files: include/libssh/callbacks.h

src/scp.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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2006-2007 Wengo

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Files: debian/*

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

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Linking with OpenSSL

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1.16 python-setuptools 39.0.1-2

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1.17 queue 1.1.0

1.17.1 Available under license :

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1.18 prometheus-client 0.2.0

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1.19 patch 2.7.6-2ubuntu1

1.19.1 Available under license :

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Version 3, 29 June 2007

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1.20 pam 1.1.8 3.6ubuntu2.18.04.1

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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.

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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:

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/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/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
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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
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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Protocol Buffers for Go with Gadgets

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

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1.26 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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1.29 apache-http-server 2.4.29-1ubuntu4.23

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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>
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<!--
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">
```



```

</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<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>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
</div>

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[!\[\]\(bd3b31712ad9bab5a241210fa6925cdd_img.jpg\)](#page-header)

[Comments](#)

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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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For the server\util_md5.c component:

```
/*
*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*****
*
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For the test\zb.c component:

/* ZeusBench V1.01
 =====

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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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1.35 gopherjs 0.0.0-20181017120253-0766667cb4d1

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1.36 pam 1.3.1-5ubuntu4.3

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1.37 golang 1.12.5

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1.43 go-bgp 0.0.0-20210302053313-5960e8ebd1e3

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Tom's fast math (bignum support) and LibTomMath

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@heading Doug Rabson

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 libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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

@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libcrypto

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D3DES (V5.09) -

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

Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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lib/hcrypto/test_dh.c

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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

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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).

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@node Copying

@c man begin DESCRIPTION

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@center Version 3, 29 June 2007

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```
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```

```
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```

```
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```

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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

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>
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repository: <http://github.com/dagolden/module-build/>
version: 3

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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>
```

```
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the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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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
```

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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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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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<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;
}

```

1.59 pcre 8.39-12ubuntu0.1

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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,
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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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 */
```

\$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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# * 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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* 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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* user.
```

```
*
```

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

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

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

```
*/
```

Found in path(s):

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

.\"

.\" \$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

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1.63 sysv-init 2.88dsf 59.10ubuntu1

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- * 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>,
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Protocol Buffers for Go with Gadgets

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

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1.66 x-crypto 0.0.0-20201221181555- eec23a3978ad

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1.67 miekg-dns 1.1.38

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1.68 zlib 1.2.8

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

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1.69 sqlite 3.22.0-1ubuntu0.4

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1.70 p11-kit 0.23.20-1ubuntu0.1

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1.71 findutils 4.7.0 1ubuntu1

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1.73 gogoprotobuf 1.3.2

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1.76 libsepol 2.7-1

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

1.77 e2fsprogs 1.44.1 1ubuntu1.4

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o
23-June-2007

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That's all there is to it!

This 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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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/

From the original distribution:

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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/

From the original distribution:

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Gadi Oxman, August 1995

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Version 2, June 1991

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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>
```

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```
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.
```

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<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)

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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

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```
The list of people who have contributed code to the cmux repository.
#
Auto-generated with:
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#
Andreas Jaekle <andreas@jaekle.net>
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```

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## 1.82 google-protobuf 3.12.2

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Protocol Buffers - Google's data interchange format

=====

[[Build status]](<https://storage.googleapis.com/protobuf-kokoro-results/status-badge/linux-javascript.png>)](<https://fusion.corp.google.com/projectanalysis/current/KOKORO/prod:protobuf%2Fgithub%2Fmaster%2Fubuntu%2Fjavascript%2Fcontinuous>) [[Build status]](<https://storage.googleapis.com/protobuf-kokoro-results/status-badge/macos-javascript.png>)](<https://fusion.corp.google.com/projectanalysis/current/KOKORO/prod:protobuf%2Fgithub%2Fmaster%2Fmacos%2Fjavascript%2Fcontinuous>)

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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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- \*/

Found in path(s):

\* /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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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>com.github.mifmif</groupId>
 <artifactId>generex</artifactId>
 <version>1.0.2</version>
 <name>Generex</name>
 <url>https://github.com/mifmif/Generex/tree/master</url>
 <description>Generex A Java Library for regex to Strings generation</description>
 <packaging>jar</packaging>
 <licenses>
 <license>
 <name>The Apache Software License, Version 2.0</name>
 <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
 <distribution>repo</distribution>
 </license>
 </licenses>
 <developers>
 <developer>
 <id>mifmif</id>
 <name>MIFRAH Youssef</name>
 <email>mifmif.com@gmail.com</email>
 </developer>
 <developer>
 <id>mkolisnyk</id>
 <name>mkolisnyk</name>
 <email>kolesnik.nickolay@gmail.com</email>
 </developer>
 </developers>
 <parent>
```

```

<groupId>org.sonatype.oss</groupId>
<artifactId>oss-parent</artifactId>
<version>7</version>
</parent>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<maven.pmd.excludes>**/generated-sources/**</maven.pmd.excludes>
</properties>
<scm>
<connection>scm:git:git@github.com:mifmif/Generex.git</connection>
<developerConnection>scm:git:git@github.com:mifmif/Generex.git</developerConnection>
<url>https://github.com/mifmif/Generex.git</url>
</scm>
<ciManagement>
<url>https://travis-ci.org/mifmif/Generex/builds</url>
<system>Travis</system>
<notifiers>
<notifier>
<address>mifmif.com@gmail.com</address>
<type>mail</type>
</notifier>
<notifier>
<address>kolesnik.nickolay@gmail.com</address>
<type>mail</type>
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</notifiers>
</ciManagement>

<distributionManagement>
<snapshotRepository>
<id>ossrh</id>
<url>https://oss.sonatype.org/content/repositories/snapshots</url>
</snapshotRepository>
<repository>
<id>ossrh</id>
<url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
</repository>
</distributionManagement>

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<sourceDirectory>src/main/java</sourceDirectory>
<testSourceDirectory>src/test/java</testSourceDirectory>
<resources>
<resource>
<directory>src</directory>
<excludes>

```

```

 <exclude>**/*.java</exclude>
 </excludes>
</resource>
<resource>
 <directory>target/dependency</directory>
 <excludes>
 <exclude>**/*.java</exclude>
 </excludes>
</resource>
<resource>
 <directory>src/main/resources</directory>
 <includes>
 <include>**/*.properties</include>
 </includes>
</resource>
</resources>
<plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-install-plugin</artifactId>
 <version>2.5.2</version>
 <configuration>
 <file>target/${project.artifactId}-${project.version}.jar</file>
 <groupId>${project.groupId}</groupId>
 <artifactId>${project.artifactId}</artifactId>
 <version>${project.version}</version>
 <packaging>maven-plugin</packaging>
 </configuration>
 </plugin>

 <plugin>
 <artifactId>maven-compiler-plugin</artifactId>
 <version>3.5.1</version>
 <configuration>
 <source>1.5</source>
 <target>1.5</target>
 </configuration>
 </plugin>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-jar-plugin</artifactId>
 <version>3.0.2</version>
 <configuration>
 <excludes>
 <exclude>*</exclude>
 <exclude>com/thoughtworks/**/*</exclude>
 <exclude>freemarker/**/*</exclude>
 <exclude>ftl/**/*</exclude>
 </excludes>
 </configuration>
 </plugin>

```

```

<exclude>i18n/**/*</exclude>
<exclude>style/**/*</exclude>
<exclude>junit/**/*</exclude>
<exclude>licenses/**/*</exclude>
<exclude>META-INF/maven/**/*</exclude>
<exclude>org/codehaus/**/*</exclude>
<exclude>org/hamcrest/**/*</exclude>
<exclude>org/jbehave/**/*</exclude>
<exclude>org/junit/**/*</exclude>
<exclude>org/testng/**/*</exclude>
<exclude>org/xmlpull/**/*</exclude>
<exclude>stories/**/*</exclude>
<exclude>style/**/*</exclude>
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</excludes>
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<manifest>
<addClasspath>>false</addClasspath>
<addDefaultImplementationEntries>>true</addDefaultImplementationEntries>
<addDefaultSpecificationEntries>>true</addDefaultSpecificationEntries>
<addExtensions>>false</addExtensions>
<classpathLayoutType>simple</classpathLayoutType>
</manifest>
</archive>
</configuration>
</plugin>
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<artifactId>maven-assembly-plugin</artifactId>
<version>2.6</version>
<configuration>
<descriptors>
<descriptor>./sources.xml</descriptor>
</descriptors>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-dependency-plugin</artifactId>
<version>2.10</version>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<version>2.10.3</version>
<configuration>
<show>private</show>
<nohelp>>false</nohelp>
<failOnError>>false</failOnError>

```

```
<sourcepath>src/main/java</sourcepath>
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</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-release-plugin</artifactId>
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<tagNameFormat>v@ { project.version }</tagNameFormat>
<preparationGoals>package install:install-file</preparationGoals>
<scmCommentPrefix>#3</scmCommentPrefix>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-deploy-plugin</artifactId>
<version>2.8.2</version>
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<skip>>true</skip>
</configuration>
</plugin>
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```
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<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-source-plugin</artifactId>
<version>3.0.1</version>
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<goal>jar-no-fork</goal>
</goals>
</execution>
</executions>
</plugin>
```

```
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
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<execution>
<id>attach-javadocs</id>
<goals>
<goal>jar</goal>
</goals>
</execution>
</executions>
</plugin>
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<plugin>
 <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>
 </execution>
 </executions>
</plugin>
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```
<plugin>
 <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>
 </execution>
 </executions>
 <extensions>true</extensions>
 <configuration>
 <serverId>ossrh</serverId>
 <nexusUrl>https://oss.sonatype.org/</nexusUrl>
 </configuration>
</plugin>
<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>
</configuration>
<executions>
<execution>
<goals>
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<goal>cpd-check</goal>
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<failOnViolation>>true</failOnViolation>
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</excludes>
</configuration>
</execution>
</executions>
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<artifactId>maven-checkstyle-plugin</artifactId>
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<configLocation>./sun_checks.xml</configLocation>
<suppressionsLocation>./checkstyle-suppressions.xml</suppressionsLocation>
<failOnViolation>>true</failOnViolation>
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<plugin>
<groupId>org.codehaus.mojo</groupId>
<artifactId>cobertura-maven-plugin</artifactId>
<version>2.6</version>
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<check>
<haltOnFailure>>false</haltOnFailure>
<totalBranchRate>80</totalBranchRate>
<totalLineRate>80</totalLineRate>
<packageLineRate>80</packageLineRate>
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</check>
<instrumentation>

```

```

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 <exclude>**/HelpMojo.class</exclude>
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 <goal>check</goal>
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 </goals>
 </execution>
</executions>
</plugin>
<plugin>
 <groupId>org.codehaus.mojo</groupId>
 <artifactId>javancss-maven-plugin</artifactId>
 <version>2.0</version>
 <configuration>
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 <ncssLimit>100</ncssLimit>
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 <excludes>
 <exclude>**/tests/**/*.*</exclude>
 </excludes>
 </configuration>
 <executions>
 <execution>
 <goals>
 <goal>check</goal>
 </goals>
 </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>
 <goal>check</goal>
</goals>
</execution>
</executions>
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<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):

\* /opt/cola/permits/1257332954\_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/README.md

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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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LZ4 Library

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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) <year> <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) 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.
```

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 is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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

Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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

Files: \*

Copyright: (C) 2011+ Yann Collet

License: GPL-2+

The full text of license: <https://github.com/Cyan4973/lz4/blob/master/lib/LICENSE>

# 1.92 gnutls 3.5.18-1ubuntu1.6

## 1.92.1 Available under license :

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Version 2.1, February 1999

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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.

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

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

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Version 3, 29 June 2007

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e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is

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Version 3, 29 June 2007

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

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

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

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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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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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(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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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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#+STARTUP: showall

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.102 zap 1.18.1

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# 1.103 ncurses 6.2 Oubuntu2

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# 1.105 base-files 11ubuntu5.5

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```

```
<signature of Ty Coon>, 1 April 1989
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## 1.106 spf13-pflag 1.0.5

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It has been maintained for Debian by Noah Meyerhans <noahm@debian.org> since 6 Feb 2001.

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

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ANY g10 Code GmbH 2001-06-07  
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Code marked with ChangeLog entries of g10 Code employees.

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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22  
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LIBGCRYPT The Written Word 2005-04-15  
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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)

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- cipher/sha256-avx2-bmi2-amd64.S
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Source: <https://github.com/rockdaboot/libpsl>

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Dave Cheney <dave@cheney.net>

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@enumerate 0

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* [name of copyright owner]
*/
/*
* @(#)FileTypeMap.java 1.8 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/FileTypeMap.java
```

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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/javax/activation/MimeType.java
```

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```

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*/
/*
* @(#)MimeTypeEntry.java 1.4 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/MimeTypeEntry.java
```

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```

```
* [name of copyright owner]
*/
/*
* @(#)TextViewer.java 1.9 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/viewers/TextViewer.java
```

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```

```
/*
* @(#)FileDataSource.java 1.9 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/FileDataSource.java
```

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*/
/*
* @(#)LogSupport.java 1.4 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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\*/

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\* /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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\*/

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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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*/
```

Found in path(s):

```
* /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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\* /opt/cola/permits/1200523838\_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/registries/MailcapFile.java

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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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@(#)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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* @(#)DataSource.java 1.11 05/11/16
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```

Found in path(s):

```
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@(#)ImageViewer.java 1.8 05/11/16
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 */
```

Found in path(s):

```
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/*
* @(#)CommandObject.java 1.9 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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@c Local Variables:

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

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This package was put together by me, James Troup <james@nocrew.org>, from sources, which I obtained from:

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and:

<cvs://pserver:anoncvs@sources.redhat.com:/cvs/src>

It was previously maintained by Christopher C. Chimelis <chris@debian.org>

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## 1.117 base-passwd 3.5.44

### 1.117.1 Available under license :

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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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

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Files: doc/\*

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## 1.119 python-meld3 1.0.2-2

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- Chris McDonough, 2005-12-18

- Tres Seaver, 2006-02-09

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## 1.125 j2objc-annotations 1.1

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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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From dso/aix/dso.c:

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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\_snprintf.c:

```
*
* 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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- \* 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.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<p><code>Replaceable</code> 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.

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>

<li>Set the metadata of the new text to the metadata of the first character replaced</li>

<li>If no characters are replaced, use the metadata of the previous character</li>

<li>If there is no previous character (i.e. start == 0), use the following character</li>

<li>If there is no following character (i.e. the replaceable was empty), use default metadata<br>

<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>

</li>

</ul>

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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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p><em>Note:</em> This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable  
@author Alan Liu  
@stable ICU 2.0

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## 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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## 1.130 saaj 1.5.1

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- \* Project: <http://docs.oasis-open.org/ws-tx/wscor/2006/06>
- \* Source: <http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wstrm Version: 2005/02 (n/a)

- \* License: Oasis (Custom)
- \* Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>
- \* Source: <http://schemas.xmlsoap.org/ws/2005/02/rm/wstrm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wstrm-policy.xsd>

wstrm.xsd (1.2)

\* License: Oasis

wstx-wsat.xsd (1.1)

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xmlsec (1.5.8)

\* License: Apache-2.0

\* Project: <http://santuario.apache.org/>

\* Source:

<https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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## 1.131 xz 5.2.2 1.3

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\* \$Id\$

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## 1.147 shadow 4.5 1ubuntu2

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# 1.150 gogoprotobuf 1.3.1

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Protocol Buffers for Go with Gadgets

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

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## 1.151 json-iterator-go 1.1.11

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## 1.152 gzip 1.6 Ubuntu1

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Version 3, 29 June 2007



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# 1.153 slf4j 1.7.29

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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/CompiledExpression.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/Projection.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/TypeReference.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/common/CompositeStringExpression.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/IntLiteral.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/MethodReference.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OpModulus.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/AstUtils.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/SpelParserConfiguration.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/NullLiteral.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/standard/Tokenizer.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorMatches.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/Expression.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/standard/SpelCompiler.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/SpelMessage.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/support/ReflectionHelper.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/TypedValue.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OpOr.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/CodeFlow.java
- \* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-

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\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
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jar/org/springframework/expression/spel/ast/OpDec.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java  
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jar/org/springframework/expression/spel/ExpressionState.java  
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jar/org/springframework/expression/EvaluationContext.java  
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\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
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jar/org/springframework/expression/ExpressionException.java  
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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  
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jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java  
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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  
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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  
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jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java  
\* /opt/cola/permits/1503280719\_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-  
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\* /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  
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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  
No license file was found, but licenses were detected in source scan.

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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  
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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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```
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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/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
```

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* /opt/cola/permits/1503280719_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/ast/BooleanLiteral.java
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* /opt/cola/permits/1503280719_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/TypeLocator.java
```

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* /opt/cola/permits/1503280719_1670608532.60291/0/spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/ast/OpEQ.java
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* /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
```

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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-
```

# 1.162 audit 2.8.2 1ubuntu1

## 1.162.1 Available under license :

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

Upstream-Name: auditd

Source: <https://people.redhat.com/sgrubb/audit/>

Files: \*

Copyright: 2012-2016 Steve Grubb <[sgrubb@redhat.com](mailto:sgrubb@redhat.com)>

2006-2012 Rik Faith

License: GPL-2

Files: src/libev/\*

Copyright: 2007-2009 Marc Alexander Lehmann

License: GPL-2

Files: lib/\*

Copyright: 2005-2008 Steve Grubb <[sgrubb@redhat.com](mailto:sgrubb@redhat.com)>

License: LGPL-2.1

The audit daemon's library libaudit.\* is released under LGPL  
so that it may be linked with 3rd party software.

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On Debian systems, refer to </usr/share/common-licenses/LGPL-2.1>  
for the complete text of the GNU Lesser General Public License.

Files: debian/\*

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## 1.163 mime-pull 1.9.6

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## 1.164 systemd 237-3ubuntu10.25

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

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

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Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
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Dill, David  
Earickson, Jeff  
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Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve

Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
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Graber, Stephane  
Guillory, B.  
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Hideaki, YOSHIFUJI  
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Hoover, Adam  
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Hutchings, Ben  
Irrgang, Eric  
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Jorge, Joel Pele  
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Juhani, Timo  
KIKUCHI, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
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King, Dale  
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Klyachkin, Andrey  
Knoble, Jim  
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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  
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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  
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Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe

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Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
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Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
Uranga, Mikel Olasagasti  
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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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# 1.172 k-sone-critbitgo 1.3.1-0.20191024122315-48c9e1530131

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# 1.173 gpm 1.20.7-5

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# 1.176 tar 1.29b 2ubuntu0.2

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```
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THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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## 1.182 yerden-go-util 1.1.3

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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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<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXX
X
 This file is generated from xml source: DO NOT EDIT
XXX
X
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<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" />
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<body id="manual-page" class="no-sidebar"><div id="page-header">
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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>');
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```

/*****

```

```

* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications

```

```

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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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Fortuna in libhcrypto

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vis.c in libroken

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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) -

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

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

Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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@heading Novell, Inc

lib/hcrypto/test\_dh.c

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Upstream-Contact: [bug-grep@gnu.org](mailto:bug-grep@gnu.org)

Source: <https://savannah.gnu.org/projects/grep>

git://git.savannah.gnu.org/grep.git

Files: \*

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## 1.195 okio 1.15.0

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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 are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature 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

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Cambridge, England.

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### 1.199.1 Available under license :

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## 1.200 grpc-examples 0.1.0

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## 1.207 benbjohnson-clock 1.1.0

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*/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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jar/okhttp3/internal/publicsuffix/PublicSuffixDatabase.java

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jar/okhttp3/internal/connection/RouteSelector.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/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  
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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/tls/OkHostnameVerifier.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/tls/CertificateChainCleaner.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-



jar/okhttp3/internal/platform/OptionalMethod.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/ConnectionPool.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Connection.java  
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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/BridgeInterceptor.java  
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jar/okhttp3/internal/http2/Http2Connection.java

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jar/okhttp3/internal/http2/Http2Writer.java

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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Authenticator.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Cookie.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/connection/ConnectionSpecSelector.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/cache/FaultHidingSink.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/connection/StreamAllocation.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/connection/RouteException.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/HttpUrl.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/CookieJar.java  
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\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java  
\* /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  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/platform/Jdk9Platform.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/CallServerInterceptor.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/RealInterceptorChain.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/cache2/Relay.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http/UnrepeatableRequestBody.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/WebSocket.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/http2/ConnectionShutdownException.java  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/internal/cache2/FileOperator.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  
\* /opt/cola/permits/1131046724\_1612892586.33/0/okhttp-3-12-6-sources-2-jar/okhttp3/Address.java

## 1.213 gopkg.in-ini 1.62.0

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# 1.216 npth 1.5-3

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## 1.217 json-java 20210307

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Python License

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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 and above	2.1.1	2001-now	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)`  
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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

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-----

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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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# 1.226 tdb 1.45.5

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All lines in this file are patterns, including the comment lines; this
means that e.g. `FTL.TXT' matches all files that have this string in
the file name (including the path relative to the current directory,
always starting with `./').
#
Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdfplib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/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
#
EOF
```

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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)>.

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

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#

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

#

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

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(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:

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the

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

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

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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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Gadi Oxman, August 1995

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```

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```
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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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-----  
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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# 1.234 gopkg.in-check 1.0.0-20200227125254-8fa46927fb4f

## 1.234.1 Available under license :

Gocheck - A rich testing framework for Go

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## 1.235 nettle 3.4-1

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

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

.

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.

## 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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## 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 Miller. Python Cryptography Toolkit license (essentially public domain).

## MD4

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## MD5

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

## SERPENT

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## SHA1

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## SHA224, SHA256, SHA384, and SHA512

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

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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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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.

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That's all there is to it!

@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).

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``Major Component'', in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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@item

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@item

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@item

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```
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```
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```

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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>

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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>

A User Product is either (1) a consumer product, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, normally used refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

</para>

<para>

Installation Information for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in <acronym>ROM</acronym>).

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or



copying.

</para>

<bridgehead xml:id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

Additional permissions are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

</para>

<para>

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

</para>

<para>

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

</para>

</listitem>

<listitem>

<para>

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

</para>

</listitem>

<listitem>

<para>

Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

</para>

</listitem>

<listitem>

<para>

Limiting the use for publicity purposes of names of licensors or authors of the material; or

</para>

</listitem>

<listitem>

<para>

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

</para>

</listitem>

<listitem>

<para>

Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

</para>

</listitem>

</orderedlist>

<para>

All other non-permissive additional terms are considered further restrictions within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

</para>

<para>

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

</para>

<para>

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

</para>

<bridgehead xml:id="gpl-3-termination" renderas="sect1">

8. Termination.

</bridgehead>

<para>

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

</para>

<para>

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

</para>

<para>

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

</para>

<para>

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

</para>

<bridgehead xml:id="AcceptanceNotRequired" renderas="sect1">

9. Acceptance Not Required for Having Copies.

</bridgehead>

<para>

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

</para>

<bridgehead xml:id="AutomaticDownstream" renderas="sect1">

10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing

compliance by third parties with this License.

</para>

<para>

An entity transaction is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

</para>

<para>

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

</para>

<bridgehead xml:id="Patents" renderas="sect1">

11. Patents.

</bridgehead>

<para>

A contributor is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's contributor version.

</para>

<para>

A contributor's essential patent claims are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, control includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

</para>

<para>

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

</para>

<para>

In the following three paragraphs, a patent license is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To grant such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

</para>

<para>

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. Knowingly relying means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipients use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

</para>

<para>

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

</para>

<para>

A patent license is discriminatory if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

</para>

<para>

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be

available to you under applicable patent law.

</para>

<bridgehead xml:id="NoSurrender" renderas="sect1">

12. No Surrender of Others Freedom.

</bridgehead>

<para>

If 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 convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

</para>

<bridgehead xml:id="UsedWithAGPL" renderas="sect1">

13. Use with the <acronym>GNU</acronym> Affero General Public License.

</bridgehead>

<para>

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the <acronym>GNU</acronym> Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the <acronym>GNU</acronym> Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

</para>

<bridgehead xml:id="RevisedVersions" renderas="sect1">

14. Revised Versions of this License.

</bridgehead>

<para>

The Free Software Foundation may publish revised and/or new versions of the <acronym>GNU</acronym> General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

</para>

<para>

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the <acronym>GNU</acronym> General Public License or any later version applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the <acronym>GNU</acronym> General Public License, you may choose any version ever published by the Free Software Foundation.

</para>

<para>

If the Program specifies that a proxy can decide which future versions of the <acronym>GNU</acronym> General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

</para>

<para>

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

</para>

<bridgehead xml:id="WarrantyDisclaimer" renderas="sect1">

15. Disclaimer of Warranty.

</bridgehead>

<para>

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM AS IS WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

</para>

<bridgehead xml:id="LiabilityLimitation" renderas="sect1">

16. Limitation of Liability.

</bridgehead>

<para>

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</para>

<bridgehead xml:id="InterpretationSecs1516" renderas="sect1">

17. Interpretation of Sections 15 and 16.

</bridgehead>

<para>

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</screen>

<para>

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</para>

<screen>

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`<para>`

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`</para>`

`<para>`

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`</para>`

`</appendix>`

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winsup\testsuite\winsup.api\semtest.c
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```

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```
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```

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Version 3.1, 31 March 2009

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 <qandaentry id="faq.what.copyright">
 <question><para>What are the copyrights?</para></question>

 <answer>
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 </answer>
 </qandaentry>
</qandadiv>
```

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@end smallexample

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If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@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

```

.\" give a nicer C++. Capital omega is used to do unbreakable dashes and
.\" therefore won't be available. *(C` and *(C' expand to ` in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'h'-1p^|s-2+\h'-1p'+|s0\v'.1v'h'-1p'
.ie n \{\
. ds -- \(*W-
. ds PI pi
. if (\n(.H=4u)&(1m=24u) .ds -- \(*W'h'-12u^\(*W'h'-12u'-\" diablo 10 pitch
. if (\n(.H=4u)&(1m=20u) .ds -- \(*W'h'-12u^\(*W'h'-8u'-\" diablo 12 pitch
. ds L\" ""
. ds R\" ""
. ds C` ""
. ds C' ""
'br\}
.el\{\
. ds -- \|(em|
. ds PI \(*p
. ds L\" ``
. ds R\" "
. ds C`
. ds C'
'br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \{aq
.el .ds Aq '
.\"
.\" If the F register is turned on, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD. Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
.\" Avoid warning from groff about undefined register 'F'.
.de IX
..
.nr rF 0
.if \n(.g .if rF .nr rF 1
.if (\n(rF:(\n(.g==0)) \{\
. if \nF \{\
. de IX
. tm Index:\|I\t\|n%\t"\|I2"
..
. if !\nF==2 \{\
. nr % 0
. nr F 2
. \}
. \}

```

```

.\}
.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-2\h'-\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.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\& Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
\& Everyone is permitted to copy and distribute verbatim copies of this
\& license document, but changing it is not allowed.
.Ve
.SS "Preamble"
.IX Subsection "Preamble"
The \s-1GNU\s0 General Public License is a free, copyleft license for
software and other kinds of works.
.PP
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 \s-1GNU\s0 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,

```

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.PP

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.PP

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.PP

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 \s-1GPL\s0 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 \s-1GPL,\s0 as needed to protect the freedom of users.

.PP

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 \s-1GPL\s0 assures that patents cannot be used to render the program non-free.

.PP

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

.SS "\s-1TERMS AND CONDITIONS\s0"

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

\&\\*(L"This License\\*(R" refers to version 3 of the \s-1GNU\s0 General Public License.

.Sp

\&\\*(L"Copyright\\*(R" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

.Sp

\&\\*(L"The Program\\*(R" refers to any copyrightable work licensed under this License. Each licensee is addressed as \\*(L"you\\*(R". \\*(L"Licensees\\*(R" and \&\\*(L"recipients\\*(R" may be individuals or organizations.

.Sp

To \\*(L"modify\\*(R" 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 \\*(L"modified version\\*(R" of the earlier work or a work \\*(L"based on\\*(R" the earlier work.

.Sp

A \\*(L"covered work\\*(R" means either the unmodified Program or a work based on the Program.

.Sp

To \\*(L"propagate\\*(R" 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.

.Sp

To \\*(L"convey\\*(R" 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.

.Sp

An interactive user interface displays \\*(L"Appropriate Legal Notices\\*(R" 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.

.IP "1. Source Code." 4

.IX Item "1. Source Code."

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

.Sp

A \\*(L"Standard Interface\\*(R" 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.

.Sp

The \\*(L"System Libraries\\*(R" 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 \&\\*(L"Major Component\\*(R", 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.

.Sp

The \\*(L"Corresponding Source\\*(R" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

.Sp

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

.Sp

The Corresponding Source for a work in source code form is that same work.

.IP "2. Basic Permissions." 4

.IX Item "2. Basic Permissions."

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.Sp

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the \s-1WIPO\s0 copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

.Sp

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.IP "4. Conveying Verbatim Copies." 4

.IX Item "4. Conveying Verbatim Copies."

You may convey verbatim copies of the Program's 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.

.Sp

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.

.IP "5. Conveying Modified Source Versions." 4

.IX Item "5. Conveying Modified Source Versions."

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:

.RS 4

.IP "a." 4

.IX Item "a."

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

.IP "b." 4

.IX Item "b."

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 \\*(L"keep intact all notices\\*(R".

.IP "c." 4

.IX Item "c."

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.

.IP "d." 4

.IX Item "d."

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

.RE

.RS 4

.Sp

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 \&\\*(L"aggregate\\*(R" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's 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.

.RE

.IP "6. Conveying Non-Source Forms." 4

.IX Item "6. Conveying Non-Source Forms."

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

.RS 4

.IP "a." 4

.IX Item "a."

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

.IP "b." 4

.IX Item "b."

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

.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."

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.

.IP "e." 4

.IX Item "e."

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

.RE

.RS 4

.Sp

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.

.Sp

A \\*(L"User Product\\*(R" is either (1) a \\*(L"consumer product\\*(R", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, \&\\*(L"normally used\\*(R" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

.Sp

\&\\*(L"Installation Information\\*(R" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

.Sp

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in \s-IRROM\s0).

.Sp

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

.Sp

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for



unpacking, reading or copying.

.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

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.Sp

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.Sp

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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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.IX Item "e."

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.IP "f." 4

.IX Item "f."

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.RE

.RS 4

.Sp

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.Sp

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.Sp

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.RE

.IP "8. Termination." 4

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.IP "10. Automatic Licensing of Downstream Recipients." 4

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.Sp

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.IP "11. Patents." 4

.IX Item "11. Patents."

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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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```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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Version 2, June 1991

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

### Preamble

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

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

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

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

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If 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



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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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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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you must do one of these things:

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- b. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c. If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d. Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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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+©'
 '|[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

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## 1.250 prometheus-procfs 0.5.0

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# 1.251 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.4

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/\* CMU libsacl

\* Tim Martin

\* Rob Earhart

\* Rob Siemborski

\*/

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## 1.252 go-ole 1.2.5

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## 1.253 compatibility-more-protos 2.5.0

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Found in path(s):

```
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/MessageTest.java
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_empty.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/more_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/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_import.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/TestUtil.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/BoundedByteStringTest.java
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
```

gz/v2.5.0/more\_protos/src/proto/google/protobuf/unitest\_lite.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\_lite.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/descriptor.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/GeneratedMessageTest.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/RopeByteStringTest.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/UnknownFieldSetTest.java  
\* /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\_lite.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
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\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DeprecatedFieldTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
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\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
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gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_mset.proto  
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\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
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\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/WireFormatTest.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/ByteStringTest.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/LazyStringEndToEndTest.java  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_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/non\_nested\_extension.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\_builders\_test.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/more\_protos/src/proto/google/protobuf/descriptor.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_embed\_optimize\_for.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_import\_public\_lite.proto  
\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_lite.proto  
\* /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  
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\* /opt/cola/permits/1411677302\_1672903574.2147348/0/v2-5-0-1-tar-  
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\* /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  
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gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ServiceTest.java  
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gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/UnmodifiableLazyStringListTest.java  
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gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_embed\_optimize\_for.proto  
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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-  
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\* /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  
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\* /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
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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-
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* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
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* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
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* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
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* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
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* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
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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/unitest.proto
* /opt/cola/permits/1411677302_1672903574.2147348/0/v2-5-0-1-tar-
gz/v2.5.0/more_protos/src/proto/google/protobuf/unitest_import_lite.proto
```

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## 1.255 systemd 237

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## 1.256 protobuf-javalite 3.12.2

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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  
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\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/PrimitiveNonBoxingCollection.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/MessageSchema.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/google/protobuf/api.proto  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/FieldType.java  
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jar/com/google/protobuf/Android.java  
\* /opt/cola/permits/1518099296\_1671611324.6333022/0/protobuf-javalite-3-12-2-sources-  
jar/com/google/protobuf/Internal.java

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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/>

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tests/pkcs11/pkcs11-mock.\*

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lib/unistring.\*

Author: Bruno Haible <[bruno@clisp.org](mailto:bruno@clisp.org)>

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Written by Andy Polyakov <[appro@fy.chalmers.se](mailto:appro@fy.chalmers.se)> for the OpenSSL  
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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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# 1.269 xml-commons-resolver 1.2

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The implementation was written so as to conform with MIT's libdes.

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/\* CMU libsacl

\* Tim Martin

\* Rob Earhart

\* Rob Siemborski

\*/

/\*

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 \*/

# 1.271 libjpeg 6b

## 1.271.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

## 1.271.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

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

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

## DOCUMENTATION ROADMAP

=====

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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

Please read at least the files install.doc and usage.doc. Useful information

can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

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

## OVERVIEW

=====

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

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

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

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

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the

REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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

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

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

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

We are required to state that

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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/>. 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

## 1.272.1 Available under license :

The Debian packaging is © 2010, Piotr Oarowski <piotr@debian.org> and is licensed under the MIT License.

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

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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=====  
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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

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man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
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man/strmode.3bsd  
man/strnstr.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
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src/heapsort.c  
src/merge.c  
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man/pidfile.3bsd  
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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

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Files:

src/inet\_net\_pton.c

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src/setproctitle.c

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Files:

include/bsd/md5.h

src/hash/md5.c

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Files:

src/explicit\_bzero.c

src/chacha\_private.h

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Files:

man/mdX.3bsd

src/hash/md5hl.c

src/hash/helper.c

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## 1.280 icu 60.2 3ubuntu3.2

### 1.280.1 Available under license :

This package was debianized by Jay Berkenbilt <qjb@debian.org> on August 5, 2005.

The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

The original source was downloaded from  
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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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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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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:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands

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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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version 0.1
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Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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

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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>"Serializer Java v.r[.dd| Dnn]"</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-
```

\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"\_"|{NCNameStartChar})({NCNameChar})\*

NCNameChar={Letter}|{Digit}|"."-"\_|{CombiningChar}|{Extender}|{NCNameStartChar}| \u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

```
"*" { return disambiguateStar(); }
"/" { return newSymbol(sym.SLASH); }
"+" { return newSymbol(sym.PLUS); }
"-" { return newSymbol(sym.MINUS); }
"div" { return disambiguateOperator(sym.DIV); }
"mod" { return disambiguateOperator(sym.MOD); }
"::" { return newSymbol(sym.DCOLON); }
"," { return newSymbol(sym.COMMA); }
"@ " { return newSymbol(sym.ATSIGN); }
".. " { return newSymbol(sym.DDOT); }
"| " { return newSymbol(sym.VBAR); }
"$ " { return newSymbol(sym.DOLLAR); }
"// " { return newSymbol(sym.DSLASH); }
"= " { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"< " { return newSymbol(sym.LT); }
"> " { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
```

```

"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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```

Found in path(s):

```
* /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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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* 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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-->

Found in path(s):

\* /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>

Found in path(s):

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

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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

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/\*

```

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*/
/*
* $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>"Xalan Java v.r[.dd] Dnn]"</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
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\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/compiler/OpCodes.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/ExtendedSAX.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/AbsolutePathPattern.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_ca.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/MutableAttrListImpl.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/Pattern.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/EncodingInfo.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/ObjectFactory.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/utils/SerializerMessages\_sk.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/MultiDOM.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/functions/FuncCeiling.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/res/XPATHErrorResources\_sv.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/transformer/NodeSortKey.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/utils/SerializerMessages\_ru.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/AttributeSetMethodGenerator.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/dtm/ref/IncrementalSAXSource\_Filter.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/XPathContext.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/runtime/Operators.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-

jar/org/apache/xpath/CachedXPathAPI.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/objects/XNodeSet.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/extensions/ExtensionHandlerGeneral.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/DecimalFormatting.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/utils/SerializerMessages\_ca.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/utils/URI.java  
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jar/org/apache/xpath/operations/Mod.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/ThreadControllerWrapper.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/axes/OneStepIteratorForward.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/ContainsCall.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/TopLevelElement.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/extensions/MethodResolver.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_ja.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/dtm/DTMFilter.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/AttributeValue.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/Whitespace.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/res/IntArrayWrapper.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/CompareGenerator.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/NamespaceSupport2.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/extensions/XPathFunctionResolverImpl.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/IntStack.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/functions/FuncPosition.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/BooleanExpr.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/res/LongArrayWrapper.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/WhiteSpaceInfo.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorTemplateElem.java

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\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_fr.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_zh\_CN.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/ChildIterator.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_sv.java

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\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeList.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLERrorResources\_de.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemChoose.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMAxisIteratorBase.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SystemIDResolver.java

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\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_it.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/SelfIteratorNoPredicate.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java

\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TemplatesImpl.java



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\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathExpressionImpl.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionVisitor.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_pt\_BR.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CompilerException.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/PrintTraceListener.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMDefaultBase.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/Utils.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/UnionChildIterator.java  
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\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/AdaptiveResultTreeImpl.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_sl.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/serialize/SerializerUtils.java  
\* /opt/cola/permits/1449281020\_1666559375.8056898/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemNumber.java

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```
*/
// is found, then throw a special exception in order to terminate

Found in path(s):
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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 :

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shawnps

theory

jboverfelt

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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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```
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```

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

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (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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```
<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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Version 3, 29 June 2007

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<one line to give the program's name and a brief idea of what it does.>  
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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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).
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@c man begin COPYRIGHT
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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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@enumerate 0

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@item Source Code.

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DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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```

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```



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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.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

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/iomapper.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/GenericCodeGen/CodeGen.cpp

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/SymbolTable.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/attribute.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-targz/KhronosGroup-gslang-5798d23/gslang/MachineIndependent/Versions.h

\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/InfoSink.cpp  
\* /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  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/PoolAlloc.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/spvIR.h  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/SPVRemapper.h  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/LiveTraverser.h  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/StandAlone/Worklist.h  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/GlslangToSpv.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/IntermTraverse.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/OSDependent/Windows/ossource.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/Versions.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/GlslangToSpv.h  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/ParseContextBase.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/reflection.cpp  
\* /opt/cola/permits/1225549725\_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/Types.h  
\* /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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//

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```

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// POSSIBILITY OF SUCH DAMAGE.
//

/**
 * 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(YYSTYPE*, 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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* /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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* /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
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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/gtests/main.cpp
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* /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-gz/KhronosGroup-gslang-5798d23/StandAlone/ResourceLimits.cpp
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```

```
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* /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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## 1.304 xz 5.2.4 1ubuntu1.1

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Upstream-Name: XZ Utils

Upstream-Contact:

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

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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To: Jonathan Nieder <[jrnieder@gmail.com](mailto:jrnieder@gmail.com)>

Subject: Re: XZ utils for Debian

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

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...]

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

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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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#+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 ispell-local-pdict: "ispell-dict"
@c End:
```

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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" />
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 $(window).scroll(function() {
 if($(this).scrollTop() != 0) {
 $("#toTop").fadeIn();
 } else {
 $("#toTop").fadeOut();
 }
 });

 $("#toTop").click(function() {
 $("body,html").animate({scrollTop:0},800);
 });

});
//--><![>
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```

```

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<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-66 node-type-page" >
 <div id="skip-link">
 Skip to main content
 </div>
 <div id="toTop"></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">Home
<li class="leaf">From the Board
<li class="leaf">Contact
<li class="last leaf">Donate
 </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 == '') { this.value = 'Search this website...';}" onFocus="if
 (this.value == 'Search this website...') { this.value = '';}" 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>
 <!-- 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">

 </div>

 <div id="site-name">
 Open Source Initiative
 </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">About<li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">History<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">Board<li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Board - Annotated<li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Minutes<li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Organization & Operations<li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-children">Articles of Incorporation<li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children">Board Elections<li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children">Bylaws<li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children">Conflict of Interest<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">Trademark & Logo<li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Trademark Guidelines<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<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<li id="menu-1072-1" class="middle
even sf-item-2 sf-depth-3 sf-no-children">Licensing Code
of Conduct<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums<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<li id="menu-2032-1" class="middle even
sf-item-2 sf-depth-2 sf-no-children">Volunteers<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<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store<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<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<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<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<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<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<li id="menu-1514-1" class="middle even
sf-item-4 sf-depth-2 sf-no-children">Working Groups<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<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<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<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children">Events </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 MIT License</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 = "
<p>The following are other community resources that may be helpful:

The MIT License on TLDRLegal
GNU License List
Wikipedia License List
OSSWatch License Diff
Choosealicense";
```

```
 } else {
```

```
 x = " ";
```

```
 }
```

```
 document.getElementById("demo").innerHTML = x;
```

```
}
```

```
//--><![>
```

```
</script></div>
```

```
<p>Copyright <YEAR> <COPYRIGHT HOLDER></p>
```

```
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```

```
<p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p>
```

```
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```

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</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 href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;">

<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 href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;">

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;">

<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>

<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.
</p>
<p>
Terms of Service
</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 :

BSD 3-Clause License

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## 1.312 gzip 1.10 Ubuntu4.1

### 1.312.1 Available under license :

This package is maintained for Debian by Bdale Garbee <bdale@gag.com>, and was built from the sources found at:

<ftp://ftp.gnu.org/gnu/gzip/>

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run



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

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"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.

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.

A "covered work" means either the unmodified Program or a work based on the Program.

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

charge.

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

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

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

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```
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```

```
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```
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```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an “about box”.

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# 1.314 pkg-config 0.29.1 0ubuntu2

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Version 2, June 1991

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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.

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

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This 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.

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

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

6. As an exception to the Sections above, you may also 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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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <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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1.6.1	1.6	2001	CNRI	no
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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#### 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)`  
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

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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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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Select kqueue

-----

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-----

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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

-----

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zlib

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The `:mod:`zlib`` extension is built using an included copy of the zlib sources if the zlib version found on the system is too old to be used for the build::

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cfuhash

-----

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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libmpdec

-----

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## History and License

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <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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0.9.0 thru 1.2   n/a	1991-1995	CWI	yes	
+-----+				
1.3 thru 1.5.2   1.2	1995-1999	CNRI	yes	
+-----+				
1.6	1.5.2	2000	CNRI	no
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2.0	1.6	2000	BeOpen.com	no
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1.6.1	1.6	2001	CNRI	no
+-----+				
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+-----+				
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+-----+				
2.1.1	2.1+2.0.1	2001	PSF	yes
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2.1.2	2.1.1	2002	PSF	yes
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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  
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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

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-----

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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's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

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

Solution inspired by code from:

Samuel Neves ([supercop/crypto\\_auth/siphash24/little](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

-----

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

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cfuhash

-----

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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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## 1.320 audit 2.8.2-1ubuntu1.1

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## 1.321 mawk 1.3.3 17ubuntu3

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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# 1.322 findutils 4.6.0+git+20170828 2

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## 1.324 pkg-sftp 1.13.1

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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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## 1.334.1 Available under license :

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

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/bitstring.3
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* /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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* published in UNIX Review, Vol. 6, No. 8.
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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/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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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/

```

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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*/

```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

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# 1.335 gopkg.in-yaml 2.3.0

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## 1.336 e2fsprogs 1.44.1 1ubuntu1.3

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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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`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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Version 2, June 1991

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

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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/

From the original distribution:

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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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Ty Coon, President of Vice
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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
```



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- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/DefaultEventListenerFactory.java
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- \* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/PayloadApplicationEvent.java
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jar/org/springframework/context/annotation/ImportSelector.java  
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jar/org/springframework/remoting/rmi/RmiRegistryFactoryBean.java  
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jar/org/springframework/scheduling/support/TaskUtils.java  
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jar/org/springframework/context/annotation/DeferredImportSelector.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/support/ResourceBundleMessageSource.java  
\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java  
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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java  
\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationFactory.java  
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\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java  
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\* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}

\* reference through WebSphere's proprietary {@code AdminServiceFactory} API,

\* available on WebSphere 5.1 and higher.

\*

\* <p>Exposes the {@code MBeanServer} for bean references.

\* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},

\* which uses standard JMX 1.2 API to access the platform's MBeanServer.

\*

\* <p>See the javadocs for WebSphere's

\* <a href="http://bit.ly/UzccDt">{@code AdminServiceFactory}</a>

\* and <a href="http://bit.ly/TRIX2r">{@code MBeanFactory}</a>.

\*

\* @author Juergen Hoeller  
\* @author Rob Harrop  
\* @since 2.0.3  
\* @see javax.management.MBeanServer  
\* @see MBeanServerFactoryBean  
\*/

Found in path(s):

\* /opt/cola/permits/1137148469\_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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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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David Anderson: December 2006

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## 1.346 kubernetes-klog 0.3.1

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# 1.347 prometheus-procfs 0.0.11

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- \* /opt/cola/permits/1411677356\_1672903584.033523/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DynamicMessageTest.java
- \* /opt/cola/permits/1411677356\_1672903584.033523/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TestBadIdentifiers.java
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- \* /opt/cola/permits/1411677356\_1672903584.033523/0/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/UnknownFieldSetTest.java
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- \* /opt/cola/permits/1411677356\_1672903584.033523/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/test\_bad\_identifiers.proto
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```
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```

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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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```
/* 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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## 1.351 gopkg.in-ini 1.51.0

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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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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
Apache License
 Version 2.0, January 2004
 http://www.apache.org/licenses/
```

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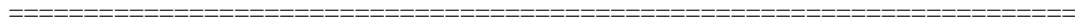
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= vendor/github.com/mindprince/gonvml/LICENSE 3b83ef96387f14655fc854ddc3c6bd57  
package storageos

```
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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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
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#
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tomb - support for clean goroutine termination in Go.

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## 1.356 gorilla 1.2.0

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gz/mod\_authnz\_external-3.3.2/mod\_authnz\_external.c

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# 1.359 patch 2.7.6 2ubuntu1.1

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## 1.368 bzip2 1.0.8 2

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---

# 1.369 selinux 2.7-2build2

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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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CP#vMOoYL?6]2z({CLYj0
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g|BI'W|j>jf_{JPp}oMd3rfQ+}_3<%<6jx{ }11D5eg;NtD+~R]w[xiue@F#Em0hu;,x{R7V2!Vq~AG{EX -
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zCTJtjSN:$gE11QQ$7*5++V=4Xt9V?r3_Vd2o8h"F8~qM,ZI6=Qgtw|11np#_(+?)zp(;H!E2Nz'WW_WmA,
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Fw=|
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```
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```
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Version 2.1, February 1999

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#### CAMELLIA

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#### CAST128

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

#### DES

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#### MD2

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#### MD4

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SHA224, SHA256, SHA384, and SHA512

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## ## Source Code

The project maintains the following source code repositories:

\* <https://github.com/eclipse-ee4j/jaxb-api>

## ## Third-party Content

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# 1.377 coreutils 8.28 1ubuntu1

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# 1.378 iconv 2.31

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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 state 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) <year> <name of author>
```

This program 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 of the License, or (at your option) any later version.

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

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

```
<program> Copyright (C) <year> <name of author>
This program 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, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

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Version 2, June 1991

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

Preamble

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

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

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it

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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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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.

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

That's all there is to it!

# 1.379 golang-glog 0.0.0-20160126235308-23def4e6c14b

## 1.379.1 Available under license :

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# 1.380 prometheus-procfs 0.6.0

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

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# 1.381 mime-support 3.60ubuntu1

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```
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```
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```

```
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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

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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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```
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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-

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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/EmptyTargetSource.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/support/NameMatchMethodPointcut.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java  
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jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java  
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jar/org/springframework/aop/aspectj/RuntimeTestWalker.java  
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- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/aopalliance/aop/Advice.java
- \* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java

\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSource.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/aopalliance/aop/AspectException.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/aopalliance/intercept/Joinpoint.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-jar/org/aopalliance/intercept/MethodInvocation.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  
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\* /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  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-

jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/framework/DefaultAopProxyFactory.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/support/StaticMethodMatcher.java  
\* /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-  
jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
jar/org/springframework/aop/support/Pointcuts.java  
\* /opt/cola/permits/1502192063\_1670525588.407543/0/spring-aop-5-0-2-release-sources-1-  
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 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/>

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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.

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Add X.509 Issuer Alternative Name functions.

Boyan Kasarov \*bkasarov [at] gmail.com\*

C++ fixes.

Steve Dispensa \*dispensa [at] phonefactor.com\*

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Fix TLS-version checks.

Redesign and implementation of the buffering layer.

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lib/accelerated/x86/elf/aes-ssse3-x86.s  
lib/accelerated/x86/macosx/aes-ssse3-x86.s

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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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lib/unistring/\*

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Version 3, 19 November 2007

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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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```
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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
```

```
*
```

```
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```

```
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```

```
*
```

```
*/
```

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```
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These people have either submitted patches or suggestions, or their bug
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# 1.395 grpc-ecosystem-go-grpc-middleware

## 1.0.1-0.20190118093823-f849b5445de4

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# 1.397 libunistring 0.9.9 0ubuntu1

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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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## 1.403 cpp 8.2.0-1ubuntu2~18.04

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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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```
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```

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DRuntime: Runtime Library for the D Programming Language

=====

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# 1.408 compatibility-test-suite 2.5.0

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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_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
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LazyStringEndToEndTest.java
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/google/protobuf/descriptor.proto
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/google/protobuf/unittest_no_generic_services.proto
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
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gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/RopeByteStringSubstringTest.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/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-
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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/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-
gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_import_lite.proto
* /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-
gz/v2.5.0/protos/src/proto/google/protobuf/unittest_enormous_descriptor.proto
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/com/google/protobuf/nested_builders_test.proto
* /opt/cola/permits/1411677261_1672903569.0908618/0/v2-5-0-1-tar-
gz/v2.5.0/protos/src/proto/google/protobuf/unittest_lite_imports_nonlite.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-
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* /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/DynamicMessageTest.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/TextFormatTest.java

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_lite\_imports\_nonlite.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/WireFormatTest.java

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_custom\_options.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/RopeByteStringTest.java

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_mset.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/BoundedByteStringTest.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/ServiceTest.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/GeneratedMessageTest.java

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/nested\_builders\_test.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/TestUtil.java

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/descriptor.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_enormous\_descriptor.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/non\_nested\_extension.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/test\_bad\_identifiers.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_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/ByteStringTest.java

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest\_mset.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/nested\_extension.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/google/protobuf/unittest\_lite.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/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/protos/src/proto/google/protobuf/unittest.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/non\_nested\_extension\_lite.proto

\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/more\_protos/src/proto/com/google/protobuf/nested\_extension.proto  
\* /opt/cola/permits/1411677261\_1672903569.0908618/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unitest\_import\_public\_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/DescriptorsTest.java  
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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

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## 1.410 also 1.1.3-5ubuntu0.2

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Version 3, 29 June 2007

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jar/org/springframework/beans/factory/parsing/BeanEntry.java
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- \* /opt/cola/permits/1414306413\_1672906883.8277152/0/jruby-tar-gz/jruby/RubyEnumBuilderContext.java

## 1.416 xauth 1.0.10-1

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## 1.418 cast 1.3.0

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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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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

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<head>
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
 <title>MIT Kerberos License information — 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" />
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 <link rel="next" title="Copyright" href="copyright.html" />
 <link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
 <div class="header-wrapper">
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 <div class="rel">

 <a href="index.html" title="Full Table of Contents"
 accesskey="C">Contents |
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 accesskey="P">previous |
 <a href="copyright.html" title="Copyright"
 accesskey="N">next |
 <a href="genindex.html" title="General Index"
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```

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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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`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/
```





```
kprop/kpropd_rpc.c</pre></div>
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.. 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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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c



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

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

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
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```
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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: \${misc:Pre-Depends}  
+Depends: \${shlibs:Depends}, \${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: \${shlibs:Depends}, \${misc:Depends}, libxmuu1 (= \${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: \${shlibs:Depends}, \${misc:Depends}, libxmuu1 (= \${binary:Version}), libxmu-headers (= \${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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+  
+-----

+  
+Xmu/StrToBmap.c and Xmu/GrayPixmap.c also have:

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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..15dabf 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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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.425 libnsl 2.31

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

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

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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.

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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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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.

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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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- 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,

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

```
/* 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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 \* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
 \*  
 \* M. Welsh, 6 July 1996

\*  
\*  
\*/

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

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## 1.443 libffi 3.2.1 8

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\* /opt/cola/permits/1212202758\_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/ProtoUtils.java

# 1.445 sensible-utils 0.0.12+nmu1

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Upstream-Name: sensible-utils

Upstream-Contact: Anibal Monsalve Salazar <anibal@debian.org>

Source: <https://alioth.debian.org/projects/collab-maint/sensible-utils.git>

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

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

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## 1.450 protobuf-bom 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/1434645980\_1672813621.3343387/0/protobuf-java-util-3-12-2-jar/META-INF/MANIFEST.MF

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## 1.452 mitchellh-mapstructure 1.1.2

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## 1.461 expat 2.2.5 3

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## 1.462 ubuntu-keyring 2018.09.18.1~18.04.0

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=====

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\*/

/\* checkTag : validation tool for libzstd

\* command :

\* \$ ./checkTag tag

\* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any }

\* The tag is then compared to zstd version number.

\* They are compatible if first 3 digits are identical.

\* Anything beyond that is free, and doesn't impact validation.

\* Example : tag v1.8.1.2 is compatible with version 1.8.1

\* When tag and version are not compatible, program exits with error code 1.

\* When they are compatible, it exists with a code 0.

\* checkTag is intended to be used in automated testing environment.

\*/

# 1.467 openorb master

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## 1.468 properties 1.8.5

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include/bsd/err.h  
include/bsd/stdlib.h  
include/bsd/sys/param.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/bitstring.h  
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/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/radixsort.c  
src/setmode.c  
src/strmode.c  
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man/fmtcheck.3bsd

man/humanize\_number.3bsd

man/stringlist.3bsd

man/timeval.3bsd

src/fmtcheck.c

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man/expand\_number.3bsd

man/flopen.3bsd

man/getpeereid.3bsd

man/pidfile.3bsd

src/expand\_number.c

src/hash/sha512.h

src/hash/sha512c.c

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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random\_linux.h

src/arc4random\_openbsd.h

src/arc4random\_uniform.c

src/arc4random\_unix.h

src/arc4random\_win.h

src/closefrom.c

src/getentropy\_aix.c

src/getentropy\_bsd.c

src/getentropy\_hpux.c

src/getentropy\_hurd.c

src/getentropy\_linux.c

src/getentropy\_osx.c

src/getentropy\_solaris.c

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src/hash/md5.c

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# 1.476 errors 0.9.1

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```

Upstream source:  
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Author: Per Bothner

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<ftp.gnu.org/pub/gnu/readline/readline-6.0.tar.gz>.

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# 1.482 xerces-j 2.7.1

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

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```
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```

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The End

## 1.485 openssh 7.6p1-4ubuntu0.1

### 1.485.1 Available under license :

```
/* $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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- IDEA is no longer included, its use is deprecated
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- GMP is no longer used, and instead we call BN code from OpenSSL
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- The make-ssh-known-hosts script is no longer included
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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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```

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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 */

```

# 1.486 golang 1.7.3

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#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be
added to the AUTHORS file, depending on whether the
individual or corporate CLA was used.

Names should be added to this file like so:
Individual's name <submission email address>
Individual's name <submission email address> <email2> <emailN>
#
An entry with multiple email addresses specifies that the
first address should be used in the submit logs and
that the other addresses should be recognized as the
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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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## 3ubuntu2

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* Tim Martin
* Rob Earhart
* Rob Siemborski
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```

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```

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# 1.505 grep 3.1 2build1

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

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



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

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@heading TERMS AND CONDITIONS

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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.

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

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

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@enumerate a

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

@item

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

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@enumerate a

@item

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

@item

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@item

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

@item

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

@item

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@end enumerate

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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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# 1.511 libgcrypto 1.8.1 4ubuntu1.3

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circle.yml

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# 1.515 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3

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

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# 1.529 liberror-perl 0.17025-1

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Ext headers    GL/glext.h        Khronos  
                 GL/glxext.h        Khronos  
                 GL/wglext.h        Khronos  
                 KHR/khrplatform.h    Khronos

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include/GL/gl.h :

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include/GL/glext.h  
include/GL/glxext.h  
include/GL/wglxext.h :

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```
</pre>
jQuery v3.4.1

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The Unicode Standard, Unicode Character Database, Version 12.1.0

Unicode Character Database

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jQuery UI v1.12.1

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1.533 zap 1.19.0

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1.534 debianutils 4.8.4

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```
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1.535 x-tools 0.1.4

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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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package hooks

const licensesText = `

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//go:build go1.18

// +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.")
}
}
}

```

1.536 vim 8.0.1453-1ubuntu1.9

1.537 kubernetes-component-base 0.0.0

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1.538 golang-glog 0.0.0-20210429001901-424d2337a529

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1.539 libgpg-error 1.37 1

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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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```

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1.542 go.uber.org/atomic 1.7.0

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1.543 etcd 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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1.546 free-type 2.10.1

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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  
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src/pcf/module.mk  
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src/pcf/README  
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#  
src/zip/adler32.c  
src/zip/infblock.c  
src/zip/infblock.h  
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src/zip/infcodes.h  
src/zip/inffixed.h  
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

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Mesa 3-D graphics library

Version: 5.0

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1.551 asm 4.1

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*/
/**
 * Constructs a new {@link ClassNode}. Subclasses must not use this
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 * version.
 */

```

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```
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* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/shrink-
writer.properties
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* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/shrink-
resize.properties
```

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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/tree/analysis/Interpreter.java
* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
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* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-
jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-
jar/org/objectweb/asm/commons/package.html
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* /opt/cola/permits/1135985768_1613646771.95/0/asm-4-1-sources-1-jar/org/objectweb/asm/util/Textifiable.java

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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 `null`.
- */

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):

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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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```
*/  
/**  
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this  
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}  
 * version.  
*/
```

Found in path(s):

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1.552 afero 1.6.0

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1.556 curl 7.68.0 1ubuntu2.11

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1.557 giflib 5.2.1

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1.562 aide 0.16-3ubuntu0.1

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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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1.570 grpc-tools 398e1f5f_unbundled.tar.gz

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* /opt/cola/permits/1486010010_1671717206.6454198/0/grpcio-tools-tar-gz/grpcio_tools/grpc_tools/command.py  
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* /opt/cola/permits/1486010010_1671717206.6454198/0/grpcio-tools-tar-gz/grpcio_tools/grpc_version.py
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1.571 k-sone-critbitgo 1.4.0

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1.572 x-sys 0.0.0-20210124154548-22da62e12c0c

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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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1.577 x-sys 0.0.0-20210630005230-0f9fa26af87c

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1.578 mpdecimal 2.4.2-1ubuntu1

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1.579 inf 0.9.0

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1.580 dpkg 1.19.7ubuntu3.2

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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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1.582.1 Available under license :

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```
/*
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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 :

License Mixing

=====

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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-
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* /opt/cola/permits/1411677383_1672901718.9443603/0/v2-5-0-1-tar-
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* /opt/cola/permits/1411677383_1672901718.9443603/0/v2-5-0-1-tar-
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* /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-
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* /opt/cola/permits/1411677383_1672901718.9443603/0/v2-5-0-1-tar-
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* /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/unittest_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/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/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.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/unittest_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/unittest_optimize_for.proto
* /opt/cola/permits/1411677383_1672901718.9443603/0/v2-5-0-1-tar-
gz/v2.5.0/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/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/unittest.proto
* /opt/cola/permits/1411677383_1672901718.9443603/0/v2-5-0-1-tar-
gz/v2.5.0/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/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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1.590 glibc 2.27 3ubuntu1

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```
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* /opt/cola/permits/1411677329_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unitest_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
* /opt/cola/permits/1411677329_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unitest.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/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/unitest_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/ByteStringTest.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/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
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* /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/unitest_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/unitest_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/unitest_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/unitest_mset.proto
* /opt/cola/permits/1411677329_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unitest_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/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/unitest_custom_options.proto
* /opt/cola/permits/1411677329_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unitest_lite.proto
* /opt/cola/permits/1411677329_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unitest_import.proto
* /opt/cola/permits/1411677329_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unitest_no_generic_services.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/NestedBuildersTest.java
* /opt/cola/permits/1411677329_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unitest_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/unitest_embed_optimize_for.proto
* /opt/cola/permits/1411677329_1672903579.3497326/0/v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unitest_embed_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/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

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```

From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
Copyright (C) 2000 by Martin Pool <mbp@humblebug.org.au>

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The following was received February 23, 2000 From: "Linn, John" February 19, 2000

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1.595 coreos-semver 0.3.0

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1.597 p11-kit 0.23.9-2

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1.602 opentracing-go 1.1.0

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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/)

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/),

[RabbitMQ/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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* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

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* gzip/zlib I/O support.

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* 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.

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* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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* 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.

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* Added CodedInputStream.getTotalBytesRead().

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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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* 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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1.612 e2fsprogs 1.44.1 1ubuntu1.1

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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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Version 2, June 1991

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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!

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/)

From the original distribution:

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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/

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Gadi Oxman, August 1995

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```

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```

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```
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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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1.613 go-grpc-prometheus 1.2.0

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1.614 mergo 0.3.5

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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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1.616 gopkg.in-yaml 2.4.0

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1.619 open-ldap 2.4.45+dfsg-1ubuntu1.11

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1.620 perl 5.26.1 6ubuntu0.3

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

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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If you develop a new program, and you want it to be of the greatest possible use to humanity, 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.>

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```
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```

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```
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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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```
<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  
it under the terms of the GNU General Public License as published by  
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```

```
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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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```
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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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```
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at assemblers) written by James Hacker.
```

```
<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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```
* /opt/cola/permits/1263516747_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/META-  
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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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* /opt/cola/permits/1263516747_1643662729.3/0/kubernetes-client-4-6-3-sources-jar/io.fabric8/kubernetes/client/dsl/internal/DeploymentRollingUpdater.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-
jar/io/fabric8/kubernetes/client/dsl/ExecWatch.java
* /opt/cola/permits/1263516747_1643662729.3/0/kubernetes-client-4-6-3-sources-
jar/io/fabric8/kubernetes/client/BatchAPIGroupExtensionAdapter.java
* /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-
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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/ResourceQuotaHandler.java
* /opt/cola/permits/1263516747_1643662729.3/0/kubernetes-client-4-6-3-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/NamespaceOperationsImpl.java
* /opt/cola/permits/1263516747_1643662729.3/0/kubernetes-client-4-6-3-sources-
jar/io/fabric8/kubernetes/client/dsl/base/BaseOperation.java
* /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/dsl/KubernetesListMixedOperation.java
* /opt/cola/permits/1263516747_1643662729.3/0/kubernetes-client-4-6-3-sources-
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jar/io/fabric8/kubernetes/client/Callback.java
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* /opt/cola/permits/1263516747_1643662729.3/0/kubernetes-client-4-6-3-sources-
jar/io/fabric8/kubernetes/client/dsl/SchedulingAPIGroupDSL.java
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jar/io/fabric8/kubernetes/client/handlers/ServiceAccountHandler.java
* /opt/cola/permits/1263516747_1643662729.3/0/kubernetes-client-4-6-3-sources-
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1.625 openssl 1.0.2j

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```
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#+STARTUP: showall
```

```
* DNS resolver (dirmngr/dns.c)
```

dns.c - Recursive, Reentrant DNS Resolver.

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1.632 x-text 0.3.6

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1.633 ishidawataru-sctp 0.0.0- 20210707070123-9a39160e9062

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1.634 expat 2.2.5 3ubuntu0.7

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1.635 libcap-ng 0.7.7 3.1

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1.636 apr 1.6.3 2

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```
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From strings/apr_strnatcmp.c, include/apr_strings.h:

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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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From dso/aix/dso.c:

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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_snprintf.c:

- *
- * cvt - IEEE floating point formatting routines.
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- cipher/sha256-avx2-bmi2-amd64.S
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- random/rndjent.c (plus common Libgcrypt copyright holders)

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1.641 fwd 1.1.1

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1.642 blackfriday 0.0.0-20151117072312-300106c228d5

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1.643 sqlite 3.22.0-1

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Suppose the demo_data.boundary field holds some proprietary data description

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.

</p>

<h4>2.1.7 Priority Bug Fixes</h4>

<p>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.

</p>

<h4>2.1.8 Code Quality</h4>

<p>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.

</p>

<h4>2.1.9 Backwards Compatibility</h4>

<p>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.

</p>

<h4>2.1.10 Test Coverage</h4>

<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

</p>

<h4>2.1.11 Website</h4>

<p>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.

</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>

<p>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.

</p>

<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 http://www.sqlite.org/ 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 SQLite website 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</h2>

<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

By:<hr>

<p> </p>

Print Name:<hr>

<p> </p>

Title:<hr>

<p> </p>

</td><td width="10%"></td>

<td valign="top">

COMPANY

By:<hr>

<p> </p>

Print Name:<hr>

<p> </p>

Title:<hr>

<p> </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.

 Public domain source code

public domain 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 database connection or the

Found in path(s):

* /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>

public domain. 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 database connection 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.

Found in path(s):

* /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

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SQLite is in the public domain. This document describes what that means

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* /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>

Public Domain

public domain

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.

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

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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

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[public domain](copyright.html). No claim of ownership is made

Found in path(s):

* /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

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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

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[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

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- 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

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SQLite is high-quality, public domain software. The goal of

members can also request their own private, proprietary extensions

Found in path(s):

* /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

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data, so do not send the ".fullschema" output of a proprietary database

Found in path(s):

* /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>Public domain</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 public domain 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.

public domain,</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>Charlotte, North Carolina - December 12, 2007 - 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>About SQLite</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:

SQLite Consortium

Dr. D. Richard Hipp

6200 Maple Cove Lane

Charlotte, NC 28269

Email: drh@sqlite.org

<http://www.sqlite.org>

Tel: +1.704.948.4565

</p>

<p>About Mozilla</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.</p>

<p>CONTACT INFORMATION:

Mozilla Corporation

Jessica Waight

Tel: +1.415.345.4754

Email: jwaight@outcastpr.com

</p>

<p>About Symbian Limited</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.</p>

<p>CONTACT INFORMATION:

Symbian Global Press Office

Karen Hamblen

+44 207 154 1707

press@symbian.com

</p>

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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/pressrelease-20071212.html

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

<html>

<title>SQLite Copyright Release Template</title>

<body bgcolor="white">

<h1 align="center">

Copyright Release for

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

claims, the principal author asks others who may from time to

time contribute changes and enhancements to likewise disclaim

their own individual copyright interest.

</p>

<p>

Because the SQLite software found at <http://www.sqlite.org/> is in the public domain, anyone is free to download the SQLite software from that website, make changes to the software, use, distribute, or sell the modified software, under either the original name or under some new name, without any need to obtain permission, pay royalties, acknowledge the original source of the software, or in any other way compensate, identify, or notify the original authors. Nobody is in any way compelled to contribute their SQLite changes and enhancements back to the SQLite website. This document concerns only changes and enhancements to SQLite that are intentionally and deliberately contributed back to the SQLite website.

</p>

<p>

For the purposes of this document, "SQLite software" shall mean any computer source code, documentation, makefiles, test scripts, or other information that is published on the SQLite website, <http://www.sqlite.org/>. Precompiled binaries are excluded from the definition of "SQLite software" in this document because the process of compiling the software may introduce information from outside sources which is not properly a part of SQLite.

</p>

<p>

The header comments on the SQLite source files exhort the reader to share freely and to never take more than one gives.

In the spirit of that exhortation I make the following declarations:

</p>

<p>

I dedicate to the public domain any and all copyright interest in the SQLite software that was publicly available on the SQLite website (<http://www.sqlite.org/>) prior to the date of the signature below and any changes or enhancements to the SQLite software that I may cause to be published on that website in the future. I make this dedication for the benefit of the public at large and to the detriment of my heirs and successors. I intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to the SQLite software under copyright law.

</p>

<p>

To the best of my knowledge and belief, the changes and enhancements that I have contributed to SQLite are either originally written by me or are derived from prior works which I have verified are also in the public domain and are not subject to claims of copyright by other parties.

To the best of my knowledge and belief, no individual, business, organization, government, or other entity has any copyright interest in the SQLite software as it existed on the SQLite website as of the date on the signature line below.

I agree never to publish any additional information to the SQLite website (by CVS, email, scp, FTP, or any other means) unless that information is an original work of authorship by me or is derived from prior published versions of SQLite.

I agree never to copy and paste code into the SQLite code base from other sources.

I agree never to publish on the SQLite website any information that would violate a law or breach a contract.

Signature: <p> </p> <p> </p> <p> </p>	Date:
Name (printed):	

Found in path(s):
* /opt/cola/permits/1147362671_1616936274.85/0/sqlite3-3-22-0-orig-www-1-tar-xz/www/copyright-release.html

1.644 berkeley-db 5.3.28-13.1ubuntu1

1.644.1 Available under license :

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- keep the license as simple as possible
- encourage the use of CuTest in both free and commercial applications and libraries
- keep the source code together
- give credit to the CuTest contributors for their work

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

distribution.

This package was debianized by Sam Clegg <samo@debian.org> on Tue, 25 Jul 2006 11:43:45 +0100.

It was downloaded from <<http://www.ch-werner.de/sqliteodbc/>>

Upstream Author: Christian Werner <chw@ch-werner.de>

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OS/2 Port Copyright (c) 2004 Lorne R. Sunley <lsunley@mb.sympatico.ca>

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/*-

* \$Id\$

*/

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1.657 json-cpp 1.6.5

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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
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lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/libgss/g_glue.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c

lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/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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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>
```

```
This program 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 2 of the License, or  
(at your option) any later version.
```

```
This program 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 General Public License for more details.
```

```
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., 675 Mass Ave, Cambridge, MA 02139, USA.
```

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.

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

```
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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Program code, documentation and auxiliary programs, except for the parts listed below, are:

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The libraries libatm, libatmd, libarequipa (in src/lib/), libsaal (in src/saal/), and qlib (in src/qgen/) are covered by the more permissive Library General Public License. See the file COPYING.LGPL for details.

Code generated by qgen is only constrained by whatever usage restrictions apply to the message structure definition used as input, i.e. the use of qgen for translation does not create any restrictions.

ilmid is Copyright (C) 1995 Telecommunications & Information Sciences Laboratory, The University of Kansas

See ilmid/COPYRIGHT for copying terms.

Some of the files used by ilmid are Copyright (C) 1992 Michael Sample and the University of British Columbia

See src/ilmid/asn1/*.ch for copying terms.

The LAN Emulation code is Copyright by Tampere University of Technology - Telecommunications Laboratory. See src/lane/COPYRIGHT.TUT and src/led/COPYRIGHT.TUT for copying terms.

The Multi-Protocol Over ATM (MPOA) code was developed at Tampere

University of Technology - Telecommunications Laboratory and is
Copyright by Heikki Vatiainen and Sampo Saaristo. It is released under
the GNU General Public License. See the file COPYING.GPL for details.

1.662 libseccomp 2.3.1-2.1ubuntu4

1.662.1 Available under license :

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Version 2.1, February 1999

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To protect your rights, we need to make restrictions that forbid
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rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis

or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link 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 library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

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

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

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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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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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.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. 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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during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

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1.663 gdbm 1.14.1-6

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Version 3, 29 June 2007

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

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

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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.

1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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Paul Borman <borman@google.com>

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

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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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```

```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/RequiredModifiers.java
```

```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/Var.java
```

```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
```

```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/CompileTimeConstant.java
```

```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/Immutable.java
```

1.668 pgv-java-validation 0.4.0

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1.669 pcre 8.39-12ubuntu0.1

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1.670 Icms 2.9

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1.672 x-sys 0.0.0-20210423082822-04245dca01da

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1.673 goprotobuf 1.5.2

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1.674 debianutils 4.9.1

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1.675 go-errors-errors 1.0.2

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1.676 x-crypto 0.0.0-20210812204632-0ba0e8f03122

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1.677 systemd 245.4-4ubuntu3.16

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

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1.678 protobuf-java 3.12.2

1.678.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1490235711_1669725539.0983188/protobuf-java-3-12-2-sources-1-  
jar/com/google/protobuf/ProtobufLists.java  
* /opt/cola/permits/1490235711_1669725539.0983188/protobuf-java-3-12-2-sources-1-  
jar/google/protobuf/timestamp.proto  
* /opt/cola/permits/1490235711_1669725539.0983188/protobuf-java-3-12-2-sources-1-  
jar/com/google/protobuf/ProtocolStringList.java  
* /opt/cola/permits/1490235711_1669725539.0983188/protobuf-java-3-12-2-sources-1-  
jar/com/google/protobuf/DescriptorMessageInfoFactory.java  
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* /opt/cola/permits/1490235711_1669725539.0983188/protobuf-java-3-12-2-sources-1-  
jar/com/google/protobuf/RepeatedFieldBuilderV3.java  
* /opt/cola/permits/1490235711_1669725539.0983188/protobuf-java-3-12-2-sources-1-  
jar/com/google/protobuf/LazyFieldLite.java  
* /opt/cola/permits/1490235711_1669725539.0983188/protobuf-java-3-12-2-sources-1-
```

jar/com/google/protobuf/BinaryReader.java
* /opt/cola/permits/1490235711_1669725539.0983188/0/protobuf-java-3-12-2-sources-1-
jar/com/google/protobuf/MessageSchema.java
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jar/com/google/protobuf/FieldSet.java
* /opt/cola/permits/1490235711_1669725539.0983188/0/protobuf-java-3-12-2-sources-1-
jar/google/protobuf/empty.proto
* /opt/cola/permits/1490235711_1669725539.0983188/0/protobuf-java-3-12-2-sources-1-

jar/com/google/protobuf/ServiceException.java
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```
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```
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