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"Code") |
<!-- ALL-CONTRIBUTORS-LIST:END -->

This project follows the [all-contributors](https://github.com/kentcdodds/all-contributors) specification. Contributions of any kind welcome!

1.5 Django 2.0.10

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Advice for new contributors

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition :: Basic tools and workflow

If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

First steps

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the

time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/

- .. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
- .. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ

1. **This ticket I care about has been ignored for days/weeks/months! What can

I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above. Copyright (c) Django Software Foundation and individual contributors. All rights reserved.

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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	Deriv	ved Yea	ur Ow	vner	GPL-
	from		CO	compatible? (1)	
0.9.0 thru 1.2		1991-	1991-1995 C		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	BeOper	n.com n	10
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	5.1 2001	PSF	ye	s
2.1.1	2.1+2.0	0.1 2001	PSF	ye	s
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) 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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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) compiler rt License

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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)))

#ifdef 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) \
 sprintf ((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
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. @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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That's all there is to it!

<?xml version="1.0" encoding="UTF-8" standalone="no"?> <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL-NS Stylesheets V1.78.1" /><meta name="keywords" content="ISO C++, library" /><meta name="keywords" content="ISO C++, runtime, library" /><link rel="home" href="../index.html" title="The GNU C++ Library" /><link rel="up" href="status.html" title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next" href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%" summary="Navigation header">License<td width="20%" align="left">Prev<th width="60%" align="center">Chapter1.StatusNext<hr /></div><div class="section"><div class="titlepage"><div><h2 class="title" style="clear: both">License</h2></div></div> There are two licenses affecting GNU libstdc++: one for the code, and one for the documentation. There is a license section in the FAQ regarding common questions. If you have more questions, ask the FSF or the gcc mailing list. <div class="section"><div class="titlepage"><div><div><h3 class="title">The Code: GPL</h3></div></div></div>

The source code is distributed under the <a class="link" href="appendix_gpl.html" title="AppendixD. GNU General Public License version 3,

```
with the addition under section 7 of an exception described in
   the <span class="quote"><span class="quote">GCC Runtime Library Exception, version 3.1</span></span>
   as follows (or see the file COPYING.RUNTIME):
  <div class="literallayout"><br />
GCCRUNTIMELIBRARYEXCEPTION<br />
<br />
Version3.1,31March2009<br />
<br />
Copyright(C)2009<a class="link" href="http://www.fsf.org" target="_top">FreeSoftwareFoundation,Inc.</a><br/>br />
<br />
Everyoneispermittedtocopyanddistributeverbatimcopiesofthis<br/>br />
licensedocument,butchangingitisnotallowed.<br />
<br />
ThisGCCRuntimeLibraryException("Exception")isanadditional<br/>
permissionundersection7oftheGNUGeneralPublicLicense,version<br />
3("GPLv3").Itappliestoagivenfile(the"RuntimeLibrary")that<br/>
bearsanoticeplacedbythecopyrightholderofthefilestatingthat<br/>br />
thefileisgovernedbyGPLv3alongwiththisException.<br />
<br />
WhenyouuseGCCtocompileaprogram,GCCmaycombineportionsof<br/>of<br/>
certainGCCheaderfilesandruntimelibrarieswiththecompiled<br />
program.ThepurposeofthisExceptionistoallowcompilationof<br/>
non-GPL(includingproprietary)programstouse,inthisway,the<br/>br />
headerfilesandruntimelibrariescoveredbythisException.<br/>br/>
<br />
0.Definitions.<br/>
<br />
Afileisan"IndependentModule"ifiteitherrequirestheRuntime<br/>br />
LibraryforexecutionafteraCompilationProcess,ormakesuseofan<br/>br />
interfaceprovidedbytheRuntimeLibrary,butisnototherwisebased<br />
ontheRuntimeLibrary.<br />
<br />
"GCC"meansaversionoftheGNUCompilerCollection, withorwithout<br />
modifications,governedbyversion3(oraspecifiedlaterversion)of<br/><br/>br />
theGNUGeneralPublicLicense(GPL)withtheoptionofusingany<br/>or />
subsequentversionspublishedbytheFSF.<br/>
<br />
"GPL-compatibleSoftware"issoftwarewhoseconditionsofpropagation,<br/>
modificationandusewouldpermitcombinationwithGCCinaccordwith<br />
thelicenseofGCC.<br/>
<br />
"TargetCode"referstooutputfromanycompilerforarealorvirtual<br />
targetprocessorarchitecture, inexecutable formorsuitable for <br />
inputtoanassembler,loader,linkerand/orexecution<br />
phase.Notwithstandingthat,TargetCodedoesnotincludedatainany<br/>br />
formatthatisusedasacompilerintermediaterepresentation, orused < br />
forproducingacompilerintermediaterepresentation.<br />
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<br />
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The"CompilationProcess"transformscodeentirelyrepresentedin
br /> non-intermediatelanguagesdesignedforhuman-writtencode,and/orin
br /> JavaVirtualMachinebytecode,intoTargetCode.Thus,forexample,
br /> useofsourcecodegeneratorsandpreprocessorsneednotbeconsidered
partoftheCompilationProcess,sincetheCompilationProcesscanbe
br /> understoodasstartingwiththeoutputofthegeneratorsor
br /> preprocessors.
br />

ACompilationProcessis"Eligible"ifitisdoneusingGCC,aloneor
br /> withotherGPL-compatiblesoftware,orifitisdonewithoutusingany
br /> workbasedonGCC.Forexample,usingnon-GPL-compatibleSoftwareto
br /> optimizeanyGCCintermediaterepresentationswouldnotqualifyasan
br /> EligibleCompilationProcess.
br />

1.GrantofAdditionalPermission.

YouhavepermissiontopropagateaworkofTargetCodeformedby
by/> combiningtheRuntimeLibrarywithIndependentModules,evenifsuch
propagationwouldotherwiseviolatethetermsofGPLv3,providedthat
br/> allTargetCodewasgeneratedbyEligibleCompilationProcesses.You
br/> maythenconveysuchacombinationundertermsofyourchoice,
br/> consistentwiththelicensingoftheIndependentModules.
br/>

2.NoWeakeningofGCCCopyleft.

TheavailabilityofthisExceptiondoesnotimplyanygeneral

br />

presumptionthatthird-partysoftwareisunaffectedbythecopyleft
br />

requirementsofthelicenseofGCC.

</div>

Hopefully that text is self-explanatory. If it isn't, you need to speak

to your lawyer, or the Free Software Foundation.

</div><div class="section"><div class="titlepage"><div><div><h3 class="title">The Documentation: GPL, FDL</h3></div></div>

The documentation shipped with the library and made available over

the web, excluding the pages generated from source comments, are

copyrighted by the Free Software Foundation, and placed under the

 GNU Free Documentation

Documentation

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Back-Cover Texts, and no Invariant Sections.

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via processing source code comments and markup, the original source

code license applies to the generated files. Thus, the doxygen

documents are licensed GPL.

If you plan on making copies of the documentation, please let us know.

We can probably offer suggestions.

</div></div></div></div></div></div<div class="navfooter"><hr />width="40%" align="left">Prevalign="center">Upaalign="right">Nextaavalign="top">Chapter1.Statusalign="center">Homeavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsaavalign="top">Bugsavalign="top">Bugsaavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsavalign="top">Bugsvalign="top">Bugsvalign="top">Bugsvalign="top">Bugsvalign="top">Bugs</td

<?dbhtml filename="appendix_gpl.html"?>

<para>

Version 3, 29 June 2007

</para>

<para>

Copyright 2007 Free Software Foundation, Inc.

k xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.fsf.org/">http://www.fsf.org/</link>

</para>

<para>

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document, but changing it is not allowed.

</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 programto 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 <a comparison of constraints and the special danger that patents cannot be used to render the program non-free. </p>

<para> The precise terms and conditions for copying, distribution and modification follow. </para>
dpidgehead> TERMS AND CONDITIONS </bridgehead>

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>

```
<br/><br/>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 compilations 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">

<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>

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>

-
stidgehead 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>

dgehead 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 partys 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>

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sect1">
sect1">

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

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2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC. @node Library Copying @appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

@display

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.] @end display

@appendixsubsec Preamble

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License. In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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@ifinfo
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Verify that the user has already received a copy of these materials or that you have already sent this user a copy. @end enumerate

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@end enumerate

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@heading END OF TERMS AND CONDITIONS
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@center END OF TERMS AND CONDITIONS
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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

@smallexample

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. @end smallexample

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

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

@smallexample

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

@var{signature of Ty Coon}, 1 April 1990Ty Coon, President of Vice@end smallexample

```
That's all there is to it!
#!/usr/bin/python
#
# Copyright (C) 2013 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.pl --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.pl --this-year libjava
#
#
# would run the script on just libjava/.
#
# 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{}'
    '|@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 + ')*)?')

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 \geq 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:

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)]
        + ' ' + 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() + \langle 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)
  with open (pathname, 'r') as file:
     prev = None
     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
```

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)
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.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) == 0:
                self.chosen_dirs) == 0:
                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):
                 \operatorname{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 woend 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
    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 LibJavaFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Handled separately.
         'testsuite',
         # Not really part of the library
         'contrib',
         # Imported from upstream
         'classpath',
         'libltdl',
         ])
 def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
       return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
       return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)
class LibMudflapFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Handled separately.
         'testsuite',
         ])
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',
         1)
    self.skip_dirs |= set ([
         # Contains automatically-generated sources.
         'html',
         # The testsuite data files shouldn't be changed.
         'data',
         # Contains imported images
         'images',
         1)
    self.own_files |= set ([
         # Contains markup around the copyright owner.
         'spine.xml',
         1)
 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 ('Information Technology Industry Council.')
```

self.add external author ('Makoto Matsumoto and Takuji Nishimura,') self.add_external_author ('National Research Council of Canada.') 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 ('include') self.add_dir ('libada') self.add_dir ('libatomic') self.add_dir ('libbacktrace') self.add_dir ('libcpp', LibCppFilter()) self.add_dir ('libdecnumber') # libffi is imported from upstream. self.add_dir ('libgcc', LibGCCFilter()) self.add_dir ('libgfortran') self.add_dir ('libgomp') self.add_dir ('libiberty') self.add_dir ('libitm') self.add_dir ('libjava', LibJavaFilter()) self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter()) self.add_dir ('libmudflap', LibMudflapFilter()) self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter()) self.add_dir ('libobjc') self.add_dir ('libquadmath')

libsanitiser is imported from upstream. self.add_dir ('libssp') self.add_dir ('libstdc++-v3', LibStdCxxFilter()) self.add_dir ('lto-plugin') # zlib is imported from upstream.

```
self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
    l
```

```
GCCCmdLine().main()
```

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

```
    /**
    * A simple Taglet which handles Copyright information.
    */
    public class CopyrightTaglet implements Taglet {
```

```
private static final String NAME = "copyright";
private static final String HEADER = "Copyright:";
```

```
public String getName() {
    return NAME;
}
public boolean inField() {
    return true;
}
public boolean inConstructor() {
    return true;
}
```

```
public boolean inMethod() {
```

```
return true;
}
public boolean inOverview() {
 return true;
}
public boolean inPackage() {
 return true;
}
public boolean inType() {
 return true;
}
public boolean isInlineTag() {
 return false;
}
public static void register(Map tagletMap) {
 CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
 tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
 return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
 if (tags.length == 0) {
   return null;
 }
 else {
   boolean haveValidTag = false;
   for (int i = 0; i < tags.length \&\& !haveValidTag; ++i) {
     if (tags[i].text().length() > 0) {
       haveValidTag = true;
     }
   }
   if (haveValidTag) {
     StringBuffer result = new StringBuffer();
     result.append("<dl>");
     for (int i = 0; i < tags.length; i++) {
       if (tags[i].text().length() > 0) {
         result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
        }
     }
```

```
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
/* Permission.java -- The superclass for all permission objects
Copyright (C) 1998, 2001, 2002, 2005 Free Software Foundation, Inc.
```

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package java.security;

import java.io.Serializable;

/**

* This class is the abstract superclass of all classes that implement * the concept of a permission. A permission consists of a permission name * and optionally a list of actions that relate to the permission. The * actual meaning of the name of the permission is defined only in the * context of a subclass. It may name a resource to which access permissions * are granted (for example, the name of a file) or it might represent * something else entirely. Similarly, the action list only has meaning * within the context of a subclass. Some permission names may have no * actions associated with them. That is, you either have the permission * or you don't. * * The most important method in this class is <code>implies</code>. This * checks whether if one has this permission, then the specified * permission is also implied. As a conceptual example, consider the * permissions "Read All Files" and "Read File foo". The permission * "Read All Files" implies that the caller has permission to read the * file foo. * <code>Permission</code>'s must be immutable - do not change their * state after creation. * @author Aaron M. Renn (arenn@urbanophile.com) * @see Permissions * @see PermissionCollection * @since 1.1 * @status updated to 1.4 */ public abstract class Permission implements Guard, Serializable { /** * Compatible with JDK 1.1+. */ private static final long serialVersionUID = -5636570222231596674L; /** * This is the name assigned to this permission object. * @serial the name of the permission */

private String name;

/**

* Create an instance with the specified name.

```
* @param name the permission name
*/
public Permission(String name)
{
this.name = name;
}
```

/**

```
* This method implements the <code>Guard</code> interface for this class.
```

* It calls the <code>checkPermission</code> method in

* <code>SecurityManager</code> with this <code>Permission</code> as its

* argument. This method returns silently if the security check succeeds

* or throws an exception if it fails.

```
*
```

* @param obj the <code>Object</code> being guarded - ignored by this class

```
* @throws SecurityException if the security check fails
```

```
* @see GuardedObject
```

```
* @see SecurityManager#checkPermission(Permission)
```

```
*/
```

```
public void checkGuard(Object obj)
```

```
{
```

```
SecurityManager sm = System.getSecurityManager();
```

```
if (sm != null)
```

```
sm.checkPermission(this);
```

}

```
/**
```

```
* This method tests whether this <code>Permission</code> implies that the
```

```
* specified <code>Permission</code> is also granted.
```

*

```
* @param perm the <code>Permission</code> to test against
```

```
* @return true if perm is implied by this
```

*/

public abstract boolean implies(Permission perm);

```
/**
```

```
* Check to see if this object equals obj. Use <code>implies</code>, rather
```

```
* than <code>equals</code>, when making access control decisions.
```

```
*
```

```
* @param obj the object to compare to
```

```
*/
```

public abstract boolean equals(Object obj);

/**

* This method returns a hash code for this <code>Permission</code>. It

```
* must satisfy the contract of <code>Object.hashCode</code>: it must be
```

* the same for all objects that equals considers to be the same.

```
* @return a hash value
*/
public abstract int hashCode();
/**
* Get the name of this <code>Permission</code>.
* @return the name
*/
public final String getName()
{
 return name:
}
/**
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read.write".
*
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();
/**
* This method returns an empty <code>PermissionCollection</code> object
* that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* <code>implies</code>.
*
* @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
 return null;
}
/**
* This method returns a <code>String</code> representation of this
* <code>Permission</code> object. This is in the format:
* <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
* + ')'</code>.
*
```

```
*/
```

* @return this object as a <code>String</code>

```
public String toString()
{
 CPStringBuilder string = new CPStringBuilder();
 string = string.append('(');
 string = string.append(getClass().getName());
 string = string.append(' ');
 string = string.append(getName());
 if (!(getActions().equals("")))
   {
    string = string.append(' ');
    string = string.append(getActions());
   }
 string = string.append(')');
 return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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```

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package java.security.acl;

/**

* This interface provides information about a permission that can be

* granted. Note that this is not the same as the class

* <code>java.security.Permission</code>.

```
* @version 0.0
```

*

* @author Aaron M. Renn (arenn@urbanophile.com)

*/

public interface Permission

{

/**

* This method tests whether or not a specified <code>Permission</code>

* (passed as an <code>Object</code>) is the same as this permission.

```
*
```

* @param perm The permission to check for equality

```
*
```

* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise */

boolean equals (Object perm);

/**

* This method returns this <code>Permission</code> as a <code>String</code>.

*

* @return A <code>String</code> representing this permission.

*/

String toString();

}

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David Megginson, sax@megginson.com 1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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

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

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. ^L

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

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

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

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

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

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

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^L

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

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

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util/unlink.py

backport frop python3 Lib/test/support.py

gunicorn/selectors.py

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1.22 ius-release 1.0-15

1.23 libsass 0.15.1

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1.24 lsof 4.87 :5.el7

1.25 Mozilla Django OIDC 1.1.2

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1.26 nginx 1.15.8

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- */

1.27 openssh 7.4p1 :16.el7

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diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8 --- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.00000000 +0100 +++ openssh-7.4p1/sftp-server.8 2017-02-09 10:35:41.926475399 +0100 @@-38.6+38.7@@ .Op Fl P Ar blacklisted_requests .Op Fl p Ar whitelisted_requests .Op Fl u Ar umask +.Op Fl m Ar force_file_perms .Ek .Nm .Fl Q Ar protocol_feature @@ -138,6 +139,10 @@ Sets an explicit .Xr umask 2 to be applied to newly-created files and directories, instead of the user's default mask. +.It Fl m Ar force_file_perms +Sets explicit file permissions to be applied to newly-created files instead +of the default or client requested mode. Numeric values include: +777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set. .El .Pp On some systems, diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c --- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100 +++ openssh-7.4p1/sftp-server.c 2017-02-09 10:35:07.190520959 +0100 @@ -65,6 +65,10 @@ struct sshbuf *oqueue; /* Version of client */ static u_int version; +/* Force file permissions */ +int permforce = 0;+long permforcemode; +

/* SSH2_FXP_INIT received */ static int init_done;

```
@@ -679,6 +683,7 @@ process_open(u_int32_t id)
Attrib a;
char *name;
int r, handle, fd, flags, mode, status = SSH2 FX FAILURE;
+ mode_t old_umask = 0;
if ((r = sshbuf get cstring(iqueue, &name, NULL)) != 0 \parallel
  (r = sshbuf_get_u32(iqueue, &pflags)) != 0 \parallel /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
debug3("request %u: open flags %d", id, pflags);
flags = flags_from_portable(pflags);
mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+ if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ old umask = umask(0); /* so umask does not interfere */
+ }
logit("open \"%s\" flags %s mode 0%o",
  name, string_from_portable(pflags), mode);
if (readonly &&
@ @ -709,6 +718,8 @ @ process_open(u_int32_t id)
 }
 }
}
+ if (permforce == 1)
+ (void) umask(old_umask); /* restore umask to something same */
if (status != SSH2 FX OK)
 send_status(id, status);
free(name);
@ @ -1490,7 +1501,7 @ @ sftp_server_usage(void)
fprintf(stderr,
  "usage: %s [-ehR] [-d start_directory] [-f log_facility] "
  "[-l log_level]\n\t[-P blacklisted_requests] "
  "[-p whitelisted_requests] [-u umask]\n"
+ "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"
       %s -Q protocol_feature\n",
   __progname, __progname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);
while (!skipargs && (ch = getopt(argc, argv,
- "d:f:l:P:p:Q:u:cehR")) != -1) {
+ "d:f:l:P:p:Q:u:m:cehR")) != -1 {
 switch (ch) {
 case 'Q':
```

```
if (strcasecmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
  fatal("Invalid umask \"%s\"", optarg);
 (void)umask((mode_t)mask);
 break:
+ case 'm':
+ /* Force permissions on file received via sftp */
+ permforce = 1;
+ permforcemode = strtol(optarg, &cp, 8);
+ if (permforcemode < 0 \parallel permforcemode > 0777 \parallel
     *cp != \0 (permforcemode == 0 &&
+
     errno != 0))
+
+ fatal("Invalid file mode \"%s\"", optarg);
+ break;
 case 'h':
 default:
 sftp_server_usage();
/*
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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
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */
```

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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 0x0100
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int); #endif /* ! COMPAT POLL H */ #endif /* !HAVE POLL H */ /* * Copyright (c) 2000 Ben Lindstrom. All rights reserved. * Redistribution and use in source and binary forms, with or without * modification, are permitted provided that the following conditions * are met: * 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. * 2. Redistributions in binary form must reproduce the above copyright * notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR * IMPLIED WARRANTIES. INCLUDING. BUT NOT LIMITED TO. THE IMPLIED WARRANTIES * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. */ #ifndef BSD WAITPID H #define _BSD_WAITPID_H #ifndef HAVE WAITPID /* Clean out any potental issues */ #undef WIFEXITED #undef WIFSTOPPED #undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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* @version 3.0 (December 2000)

*

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

*

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

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

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/* OPENBSD 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
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010

#define POLLNVAL 0x0020
#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 */ /* \$Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp \$ */

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potental 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 */
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*

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* Jamie Beverly

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- * Jan-Pieter Cornet (johnpc) 2012-03-23 03:25:52 PDT

* chrysn@fsfe.org

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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

#if 0

/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#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 */
/* \$Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp \$ */

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID

/* Clean out any potental issues */ #undef WIFEXITED #undef WIFSTOPPED #undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

/* ______

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- * Foremost, OpenSSH from which this project is derived.
- * Jamie Beverly
- * Rafael D'Halleweyn 2011-06-05 18:56:24 EDT
- * Jan-Pieter Cornet (johnpc) 2012-03-23 03:25:52 PDT
- * chrysn@fsfe.org
- * dfberger@users.noreply.github.com

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* @version 3.0 (December 2000)

*

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*

- * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
- * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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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
/* \$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp \$ */

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#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 POLLRDNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#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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#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potental 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 */
diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.8 2017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
.Op Fl P Ar blacklisted_requests
.Op Fl p Ar whitelisted_requests
.Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
.Ek
.Nm
.Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@ Sets an explicit

.Xr umask 2

```
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c 2017-02-09 10:35:07.190520959 +0100
@ @ -65,6 +65,10 @ @ struct sshbuf *oqueue;
/* Version of client */
static u_int version;
+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
/* SSH2_FXP_INIT received */
static int init_done;
@ @ -679,6 +683,7 @ @ process_open(u_int32_t id)
Attrib a;
char *name;
int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+ mode_t old_umask = 0;
if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
   (r = sshbuf_get_u32(iqueue, &pflags)) != 0 \parallel /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
debug3("request %u: open flags %d", id, pflags);
flags = flags_from_portable(pflags);
mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+ if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ old_umask = umask(0); /* so umask does not interfere */
+ }
logit("open \"%s\" flags %s mode 0%o",
   name, string_from_portable(pflags), mode);
if (readonly &&
@ @ -709,6 +718,8 @ @ process_open(u_int32_t id)
  }
 }
}
+ if (permforce == 1)
```

```
+ (void) umask(old_umask); /* restore umask to something same */
if (status != SSH2 FX OK)
 send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
fprintf(stderr,
  "usage: %s [-ehR] [-d start directory] [-f log facility] "
  "[-l log_level]\n\t[-P blacklisted_requests] "
  "[-p whitelisted_requests] [-u umask]\n"
+ "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"
        %s -Q protocol_feature\n",
  __progname, __progname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);
while (!skipargs && (ch = getopt(argc, argv,
- "d:f:l:P:p:Q:u:cehR")) != -1) {
+ "d:f:1:P:p:Q:u:m:cehR")) != -1) {
 switch (ch) {
 case 'Q':
 if (strcasecmp(optarg, "requests") != 0) {
@ @ -1576,6 +1587,15 @ @ sftp_server_main(int argc, char **argv,
  fatal("Invalid umask \"%s\"", optarg);
 (void)umask((mode_t)mask);
 break:
+ case 'm':
+ /* Force permissions on file received via sftp */
+ permforce = 1;
+ permforcemode = strtol(optarg, &cp, 8);
+ if (permforcemode < 0 \parallel permforcemode > 0777 \parallel
     *cp != \0 (permforcemode == 0 &&
+
     errno != 0))
+
+ fatal("Invalid file mode \"%s\"", optarg);
+ break;
 case 'h':
 default:
 sftp_server_usage();
```

1.29 psycopg2-binary 2.7.6.1

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1.30 python36u 3.6.5-1

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1.35 whitenoise 4.1

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1.36 yargs 12.0.2

1.36.1 Available under license :

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1.37 zlib 1.2.7 :17.el7

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