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RHEL7.6

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Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
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mouse-clicks or menu items--whatever suits your program.

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

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.4 alsa-lib 1.1.6 :2.el7
1.4.1 Available under license :

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
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interface definition files, plus the scripts used to control compilation
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and what the program that uses the Library does.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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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.

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

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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.

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b) You must cause any work that you distribute or publish, that in
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c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
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If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
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1.6 alsa-utils 1.1.6 :1.el7

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1.16 avahi 0.6.31 :19.el7
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1.17 babel 0.9.6 :8.el7

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Public License instead of this License. But first, please read
From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

------

From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.a13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John
On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} "'The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve UniversityInternet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
  id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
  id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
  id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.22 binutils 2.27 :34.base.el7

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```c
Local Variables:
ispell-local-pdict: "ispell-dict"
End:
(This file is under construction.)-*- text -*.-
```

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

```
+++
```

Dean Elsner wrote the original gas for vax. [more details?]  

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases
David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.27 ca-certificates 2018.2.22 :70.0.el7_5

1.28 cairo 1.15.12 :3.el7

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<tbody>
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1.34 comps-extras 7 :2.el7

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1.37 corosync lib 2.4.3 :4.el7

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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.

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1.39 cracklib 2.9.0 :11.el7
1.39.1 Available under license :

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan
=20

Nathan Neulinger
EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license="
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn\'t the place of a library to dictate to application writes what license they should be using. thus LGPL-2.1 enters to fill this void.

=Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec
directly
> and see if he wants to relicense his code as LGPL... but at this
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> released under. This wasn't actually a license change, just a
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> the original license (before moving to sourceforge -- aka, 2.7) was
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> GPL-2 ... it was a modified artistic license ... i didnt notice the license
> change until it was mentioned in the latest notes.
> =20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their applications are also GPL-2 which imo is just wrong. it isnt the
> place of a library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
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> > I am sympathetic. Guys, what do you reckon?
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In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxptr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0000
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=192.168.1.3)
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1IcOcX-0004Qt-6L
    for nneul@neulinger.org: Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC907132772D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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be combined with the library in order to run.

^L

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

That's all there is to it!

This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

-----------------------------------------------------------
> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> >
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> > What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....
My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL...
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

> >> In any case, I thank you both for working on sorting this out.
> 
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now ?
> 
> yes. go for it. thanks++
> 
> -a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > > make the change now ?
> >
> > yes. go for it. thanks++
> 
> Nathan Neulinger is the only one who can actually make said change ...
> 
> -mike

-----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
id HcOeX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
            <EC90713277D2BE41B7110CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
            <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFEB6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> > ------- Forwarded message -------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license

Open Source Used In Foundation RHEL7.6
To: alecm@crypto.dircon.co.uk

Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.40 crda 3.18_2018.05.31 :4.el7

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Thu, 22 Jan 2009 16:00:00 +0100.

The crda packages was downloaded from <http://wireless.kernel.org/download/crda/>

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</OL>

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<OL TYPE="a">

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<H2 CLASS="title"><A NAME="KERBEROS">Kerberos Support Code</A></H2>

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

```
Gnomovision version 69, Copyright (C) <VAR>year</VAR> <VAR>name of author</VAR>
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
```

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

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

Version 2, June 1991
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<ol>
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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That's all there is to it!
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1.46 curl 7.29.0 :51.el7
1.46.1 Available under license :
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OR OTHER DEALINGS IN THE SOFTWARE.
Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

License Mixing with apps, libcurl and Third Party Libraries

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/
Open Source Used In Foundation RHEL7.6

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS http://www.mozilla.org/projects/security/pki/nss/

(May be used for SSL/TLS support) Is covered by the MPL[4] license, the GPL[1] license and the LGPL[3] license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

axTLS http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal http://www.pdc.kth.se/heimdal/

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS http://www.gnu.org/software/gss/

(May be used for GSS support) GNU GSS is GPL licensed. Note that you
may not distribute binary curl packages that uses this if you build
curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume
that it uses the OpenSSL license and thus shares the same issues as
described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public
License [3]. LGPL is a variation of GPL with slightly less aggressive
"copyleft". This license requires more requirements to be met when
distributing binaries, see the license for details. Also note that if
you distribute a binary that includes this library, you must also
include the full LGPL license text. Please properly point out what
parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since
libcurl uses OpenLDAP as a shared library only, I have not heard of
anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style
license.

how to write such an exception to the GPL
[3] = LGPL - GNU Lesser General Public License:
    http://www.gnu.org/licenses/lgpl.html
[4] = MPL - Mozilla Public License:
    http://www.mozilla.org/MPL/

1.47 cvs 1.11.23 :35.el7
1.47.1 Available under license :

[I have snipped the snail mail address of the FSF because it has
changed in the past and is likely to change again. The current
address should be at http://www.gnu.org/]

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

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
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other libraries whose authors decide to use it. You can use it for
your libraries, too.

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in new free programs; and that you know you can do these things.

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

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 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 Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston,
Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

1.57 device-mapper-persistent-data 0.7.3
3.el7

1.57.1 Available under license:

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Preamble

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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 GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU 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.

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.

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.

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.

Developers that use the GNU GPL 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.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

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

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

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

TERMS AND CONDITIONS

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

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

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

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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

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.

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.

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.


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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.
The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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

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

2. Basic Permissions.

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

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

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

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You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

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.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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

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

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

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

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

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

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

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

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

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.

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.

"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.

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 ROM).

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.

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  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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</xsl:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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1.59 diffutils 3.3 :4.el7

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Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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

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library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)\n@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Index: tdsa/tdb.c

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--- tdsa.orig/tdb.c
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@@ -4,11 +4,11 @@ Rev: 23371
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1.71.1 Available under license :

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@end enumerate

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

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

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
also add information on how to contact you by electronic and paper mail.

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

```
@example
var{program} Copyright (C) var{year} var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end example
```

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

You should also get your employer (if you work as a programmer) or school, if any, to sign a ``copyright disclaimer'' for the program, if necessary.
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Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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Introduction
************

The existence of software inevitably raises the question of how
decisions about its use should be made. For example, suppose one
individual who has a copy of a program meets another who would like a
copy. It is possible for them to copy the program; who should decide
whether this is done? The individuals involved? Or another party,
called the "owner"?

Software developers typically consider these questions on the
assumption that the criterion for the answer is to maximize developers’
profits. The political power of business has led to the government
adoption of both this criterion and the answer proposed by the
developers: that the program has an owner, typically a corporation
associated with its development.

I would like to consider the same question using a different
criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform
to ethics, not the other way around. Nor does current practice decide
this question, although it may suggest possible answers. The only way
to judge is to see who is helped and who is hurt by recognizing owners
of software, why, and how much. In other words, we should perform a
cost-benefit analysis on behalf of society as a whole, taking account of
individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show
that the results are detrimental. My conclusion is that programmers
have the duty to encourage others to share, redistribute, study and
improve the software we write: in other words, to write "free"
software.(1)
How Owners Justify Their Power

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as `making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.
The Argument against Having Owners

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use.(2) In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.
When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road--but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software
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Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.

* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work on it.
Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people's ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

Obstructing Use of Programs

The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.
With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

Damaging Social Cohesion
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Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of
cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, "Will I be permitted to use it?", his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States is not technical innovation, but rather the willingness to work together for the public good. It makes no sense to encourage the former at the expense of the latter.

Obstructing Custom Adaptation of Programs
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The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box--that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as `+' for addition and `-' for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance (p0, p1)
{
    struct point p0, p1;
    float xdist = p1.x - p0.x;
    float ydist = p1.y - p0.y;
    return sqrt (xdist * xdist + ydist * ydist);
}
```

Here is the same program in executable form, on the computer I normally use:

```
1314258944 -232267772 -231844864 1634862
1411907592 -231844736 2159150 1420296208
-234880989 -234879837 -234879966 -232295424
```
Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm--to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit
your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development

The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field—you can only stand on the shoulders of the other people *in your own company*.

The associated psychosocial harm affects the spirit of scientific
cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.

It Does Not Matter How Sharing Is Restricted
============================================

I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

Software Should be Free
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I have shown how ownership of a program--the power to restrict changing or copying it--is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow terms, but it is not what is good for society.

Why People Will Develop Software
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If we eliminate intellectual property as a means of encouraging
people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun
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There are some lines of work that few will enter except for money: road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.
Funding Free Software

Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortiums shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry—an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means
that every user has the freedom to copy it and change it, but many
nonetheless pay to get copies. (Recall that "free software" refers to
freedom, not to price.) Some users order tapes who already have a copy,
as a way of making a contribution they feel we deserve. The Foundation
also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on
hiring as many programmers as possible. If it had been set up as a
business, distributing the same free software to the public for the same
fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the
Foundation for half of what they could make elsewhere. They do this
because we are free of bureaucracy, and because they feel satisfaction
in knowing that their work will not be obstructed from use. Most of
all, they do it because programming is fun. In addition, volunteers
have written many useful programs for us. (Recently even technical
writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all
fields, along with music and art. We don't have to fear that no one
will want to program.

What Do Users Owe to Developers?
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There is a good reason for users of software to feel a moral
obligation to contribute to its support. Developers of free software
are contributing to the users' activities, and it is both fair and in
the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers,
since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled
to the support of the users, but any attempt to turn this moral
obligation into a requirement destroys the basis for the obligation. A
developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act
so as to deserve the reward, but should also entreat the users for
voluntary donations. Eventually the users will learn to support
developers without coercion, just as they have learned to support public
radio and television stations.

What Is Software Productivity?
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If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards--competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.
Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves--when "Let the best person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society's resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"

In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment
with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to
decide their own actions; in particular, free to help their neighbors,
and free to alter and improve the tools which they use in their daily
lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian
Communism, it is the software owners who are the Communists.

The Question of Premises
************************

I make the assumption in this paper that a user of software is no
less important than an author, or even an author's employer. In other
words, their interests and needs have equal weight, when we decide
which course of action is best.

This premise is not universally accepted. Many maintain that an
author's employer is fundamentally more important than anyone else.
They say, for example, that the purpose of having owners of software is
to give the author's employer the advantage he deserves--regardless of
how this may affect the public.

It is no use trying to prove or disprove these premises. Proof
requires shared premises. So most of what I have to say is addressed
only to those who share the premises I use, or at least are interested
in what their consequences are. For those who believe that the owners
are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which
elevates certain people in importance above everyone else? Partly
because of the belief that this premise is part of the legal traditions
of American society. Some people feel that doubting the premise means
challenging the basis of society.

It is important for these people to know that this premise is not
part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to
"promote the progress of science and the useful arts." The Supreme
Court has elaborated on this, stating in `Fox Film vs. Doyal' that "The
sole interest of the United States and the primary object in conferring
the [copyright] monopoly lie in the general benefits derived by the
public from the labors of authors."

We are not required to agree with the Constitution or the Supreme
Court. (At one time, they both condoned slavery.) So their positions
do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
**********

We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

---------- Footnotes ----------

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will
not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.

Copyright (C) 2007-2013 Free Software Foundation, Inc.
See the end of the file for license conditions.

NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format:
"Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option.
   Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is
that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (e.g. ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not _necessary_ to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, e.g. "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (e.g. Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00618.html).

When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its
original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in “unusual” ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and “odd” copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".]

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

lisp/version.el  # emacs-copyright
lib-src/ebrowse.c  # version
lib-src/etags.c  # print_version
lib-src/rcs2log  # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright' in admin.el will do all the above.

aclocal.m4
configure
m4/*.*m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in

Open Source Used In Foundation RHEL7.6
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

/etc/refcards/*.tex
also update the \def\year macro for the latest year.

/etc/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we
can consider it part of Emacs, and he has a blanker disclaimer for
Emacs changes. (email to rmg "[Emacs-commit] emacs/etc future-bug",
20070228)

/etc/letter.pbm,letter.xpm
- trivial, no notice needed.

/etc/FTP, ORDERS
- trivial (at time of writing), no license needed

/etc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT,
WHY-FREE
rms: "These are statements of opinion or testimony. Their licenses
should permit verbatim copying only. Please don't change the
licenses that they have. They are distributed with Emacs but they
are not part of Emacs."

/etc/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of
Emacs (and written by those with assignments), a standard notice is
fine.

/etc/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QI-b5.tit, QI.tit,
SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns,
pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.
leim/SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold. After some investigation in Feb 2007, then to the best of our knowledge we believe that the original 1984 Emacs version was based on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>
I have received enough requests for the current source to ctags to post it. Here is the latest version (what will go out with 4.3, modulo any bugs fixed during the beta period). It is the 4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources: <http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the University of California and a revised BSD license. The terms of this require that the full license details be available in binary distributions - hence the file etc/ETAGS.README. The fact that the --version output just says "Copyright <year> FSF" is apparently OK from a legal point of view.

lisp/cedet/semantic/imenu.el
- See http://lists.gnu.org/archive/html/emacs-devel/2010-03/msg00410.html in which Eric Ludlam established that the remaining contributions from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe (2007/1) there is no problem with our use of the name "tetris" or the concept.
rms: "My understanding is that game rules as such are not copyrightable." <http://lists.gnu.org/archive/html/emacs-devel/2007-01/msg00960.html>
rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/
rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.
As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs. So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.

doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*/texi - All manuals should be under GFDL (but see below), and should include a copy of it, so that they can be distributed separately. FAQ.texi has a different license, for some reason no-one can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with FSF (reconfirmed by rms Aug 25 2008). Discussion with licensing@fsf.org starting on Thu, 07 Aug 2003 with subject: 
"[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie.
Leave the copyrights alone. Leave the Eli Zaretskii copyright in is_exec.c alone. See the msdos/README file for the legal history of these files.

msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use
If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diffing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"):  

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:  

<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.
src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

  I don’t remember writing it, but it reads like my prose and I believe I wrote the feature(s) it’s describing. So I would have been the likeliest person to write it.

  Odds are that I did, but I’m not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings
File says it’s in the public domain, but that might not make it so.
etc/e/eterm-color.ti
src/ndir.h

On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember anything about it. If I put it in without other comment, then probably I wrote it myself."

Someone might want to tweak the copyright years (for dates before
Note: erring on the side of caution, I also added notices to some files I thought might be considered non-trivial (if one includes comment) in s/:

aix4-1.h hpux10.h irix6-5.h
sol2.h

(everything with > 30 non-blank lines, which at least is _some kind of system)

*** These are copyright issues that need not be fixed until after Emacs 22 is released (though if they can be fixed before, that is obviously good):

Is it OK to just `bzr remove' a file for legal reasons, or is something more drastic needed? A removed file is still available from the repository, if suitable options are applied. (This issue obviously does not affect a release).

rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
  - Restore if find legal info. emacs21.ico is not due to Davenport.
  Geoff Voelker checked but could not find a record of where it came from.

etc/images
  Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

etc/TUTORIAL* (translations)
  switch to GPL (see english TUTORIAL)
  rms: "We can leave the TUTORIAL translations alone until their maintainers update them."

Can adapt short license text from end of GPL translations at:
  http://www.gnu.org/licenses/translations.html
  Only a few sentences around the license notice need changing from previous version.
  Done: TUTORIAL.eo
*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (e.g., those included from Gnulib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from Gnulib again). These are:

   Gnulib:
   build-aux/compile
   build-aux/config.guess
   build-aux/config.sub
   build-aux/decomp
   build-aux/make
   build-aux/make-if-change
   build-aux/snippet/._Noreturn
   build-aux/snippet/arg-nonnull
   build-aux/snippet/c++defs
   build-aux/snippet/warn-on-use
   doc/man/texinfo.tex
   lib/*.ch
   lib/gnulib.mk
   src/gmalloc.c
   src/termcap.c
   src/tparam.c

   Note _not_ included in the above are src/regex.{c,h} (rms: "That forked version is only in Emacs, so definitely relicense that."), and oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so definitely relicense that.")

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright, and msdos/is_exec.c and sigaction.c.

3. lwlib/

---

Open Source Used In Foundation RHEL7.6
Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc.), i.e. remain under GPL v1 or later, or v2 or later.
(rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

leim/MISC-DIC/CTLau-b5.html  >= v2
leim/MISC-DIC/CTLau.html     >= v2
   (above included in lisp/international/titdic-cnv.el)
leim/MISC-DIC/pinyin.map     >= v1
leim/MISC-DIC/ziranma.cin    >= v1
leim/SKK-DIC/SKK-JISYO.L     >= v2
leim/SKK-DIC/README          >= v2
leim/ja-dic/ja-dic.el        >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

   etc/images/gnus/README
   etc/images/mail/README
   etc/images/README
   nt/icons/README

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<td class="navColTitle">Contents</td>
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<tr>
<td valign="top" class="navColCell"><a href="#1">Unicode Copyright</a></td>
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<td valign="top" class="navColCell"><a href="#2">Restricted Rights Legend</a></td>
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<td valign="top" class="navColCell"><a href="#Exhibit1">Data Files and Software License Agreement (Exhibit 1)</a></td>
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<tr>
<td class="navColTitle">Related Links</td>
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<tr>
<td valign="top" class="navColCell"><a href="http://www.unicode.org/policies/logo_policy.html">Trademark Policy</a></td>
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<tr>
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<h3 align="center"><a name="Exhibit1">EXHIBIT 1</a></h3>

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;;; copyright.el --- update the copyright notice in current buffer

;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,
;; Inc.

;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

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;;; Commentary:

;; Allows updating the copyright year and above mentioned GPL version manually
;; or when saving a file.
;; Do (add-hook 'before-save-hook 'copyright-update), or use
;; M-x customize-variable RET before-save-hook RET.

;;; Code:

(defvar copyright-limit 2000
  "Don't try to update copyright beyond this position unless interactive.
A value of nil means to search whole buffer."
  :group 'copyright
  :type '(choice (integer :tag "Limit")
          (const :tag "No limit")))
(defcustom copyright-at-end-flag nil
"Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
:group 'copyright
:type 'boolean
:version "23.1")
;;;###autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)

(defcustom copyright-regexp
"\(\|@\copyright{}\|\[Cc\]opyright\s *\(?:(C)\)?\|\[Cc\]opyright\s *:?\s *\(?:\[^0-9\n\]*\s *\)?\s *\(?:[1-9]\([\-0-9, ';/*%#\n\t\] |\s< |\s>\)*[0-9]+\)"
"What your copyright notice looks like.
The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

(defcustom copyright-names-regexp ""
"Regexp matching the names which correspond to the user.
Only copyright lines where the name matches this regexp will be updated.
This allows you to avoid adding years to a copyright notice belonging to
someone else or to a group for which you do not work."
:group 'copyright
:type 'regexp)

;;; The worst that can happen is a malicious regexp that overflows in
;;; the regexp matcher, a minor nuisance. It's a pain to be always
;;; prompted if you want to put this in a dir-locals.el.
;;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defcustom copyright-years-regexp
"\(\s *\)\([1-9]\([\-0-9, ';/*%#\n\t\] |\s< |\s>\)*[0-9]+\)"
"Match additional copyright notice years.
The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

;;; See "Copyright Notices" in maintain.info.
;;; TODO? `end only for ranges at the end, other for all ranges.
;;; Minimum limit on the size of a range?
(defcustom copyright-year-ranges nil
"Non-nil if individual consecutive years should be replaced with a range.
If you use ranges, you should add an explanatory note in a README file.
The function `copyright-fix-years' respects this variable."
:group 'copyright
:type 'boolean
(defcustom copyright-query 'function
"If non-nil, ask user before changing copyright.
When this is `function', only ask when called non-interactively."
:group 'copyright
:type '(choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t))

;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil."
)

(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
"String representing the current year."
)

(defsubst copyright-limit () ; re-search-forward BOUND
(and copyright-limit
  (if copyright-at-end-flag
    (- (point) copyright-limit)
    (+ (point) copyright-limit))))

(defun copyright-re-search (regexp &optional bound noerror count)
  "Re-search forward or backward depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (re-search-backward regexp bound noerror count)
    (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
  "Return point-min or point-max, depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (point-max)
    (point-min))))

(defun copyright-offset-too-large-p ()
  "Return non-nil if point is too far from the edge of the buffer."
  (when copyright-limit
    (if copyright-at-end-flag
      (< (point) (- (point-max) copyright-limit))
      nil)))
(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found.
  The header must match `copyright-regexp' and `copyright-names-regexp', if set.
  This function sets the match-data that `copyright-update-year' uses."
  (widen)
  (goto-char (copyright-start-point))
  (condition-case err
    ;; (1) Need the extra \( \) around copyright-regexp because we
    ;; goto (match-end 1) below. See note (2) below.
    (copyright-re-search (concat "\(" copyright-regexp
      "\)\([ 	]*\n\).*\(?:" copyright-names-regexp "\)\)"
    (copyright-limit)
    t)
    ;; In case the regexp is rejected. This is useful because
    ;; copyright-update is typically called from before-save-hook where
    ;; such an error is very inconvenient for the user.
    (error (message "Can't update copyright: %s" err) nil))
  (defun copyright-find-end ()
    "Possibly adjust the search performed by `copyright-find-copyright'.
    If the years continue onto multiple lines that are marked as comments,
    skips to the end of all the years."
    (while (save-excursion
      (and (eq (following-char) ?),
        (progn (forward-char 1) t)
        (progn (skip-chars-forward " 	") (eolp))
        comment-start-skip
        (save-match-data
          (forward-line 1)
          (and (looking-at comment-start-skip)
            (goto-char (match-end 0)))))
      (looking-at-p copyright-years-regexp)))
    (forward-line 1)
    (re-search-forward comment-start-skip)
    ;; (2) Need the extra \( \) so that the years are subexp 3, as
    ;; they are at note (1) above.
    (re-search-forward (format "\((%s)\\" copyright-years-regexp))))
  (defun copyright-update-year (replace noquery)
    ;; This uses the match-data from copyright-find-copyright/end.
    (goto-char (match-end 1))
    (copyright-find-end)
    (setq copyright-current-year (format-time-string "%Y"))
    (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
      (substring copyright-current-year -2)))
(if (or noquery
(switch-to-buffer (current-buffer))
;; Fixes some point-moving oddness (bug#2209).
(save-excursion
(y-or-n-p (if replace
(concat "Replace copyright year(s) by ")
copyright-current-year " ? ")
(concat "Add " copyright-current-year
" to copyright? ")))))))
(if replace
(replace-match copyright-current-year t t nil 3)
(let ((size (save-excursion (skip-chars-backward "0-9"))))
(if (and (eq (% (- (string-to-number copyright-current-year)
(string-to-number (buffer-substring
(+ (point) size)
(point))))
100)

(or (eq (char-after (+ (point) size -1)) ?-)
(eq (char-after (+ (point) size -2)) ?-)))))
;; This is a range so just replace the end part.
(delete-char size)
;; Insert a comma with the preferred number of spaces.
(insert
(save-excursion
(if (re-search-backward "[0-9]\( *, *\)[0-9]"
(line-beginning-position) t)
(match-string 1)
",
)));
;; If people use the '91 '92 '93 scheme, do that as well.
(if (eq (char-after (+ (point) size -3)) ?)
(insert ?)));
;; Finally insert the new year.
(insert (substring copyright-current-year size))))))

;;###autoload
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*Pnd")
(when (or copyright-update interactivep)
(let ((noquery (or (not copyright-query)

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(and (eq copyright-query 'function) interactivep))
(save-excursion
(save-restriction
;; If names-regexp doesn't match, we should not mess with
;; the years _or_ the GPL version.
;; TODO there may be multiple copyrights we should update.
(when (copyright-find-copyright)
  (copyright-update-year arg noquery)
  (goto-char (copyright-start-point))
  (and copyright-current-gpl-version
;; Match the GPL version comment in .el files.
;; This is sensitive to line-breaks. :(  
(copyright-re-search
 "the Free Software Foundation\[\n\].*either version \n\[[0-9]+\]\\(?; of the License\)\?, or \[\n].*any later version"
(copyright-limit) t)
;; Don't update if the file is already using a more recent
;; version than the "current" one.
(< (string-to-number (match-string 1))
 (string-to-number copyright-current-gpl-version))
(or noquery
  (save-match-data
   (goto-char (match-end 1))
   (save-window-excursion
    (switch-to-buffer (current-buffer))
    (y-or-n-p
     (format "Replace GPL version %s with version %s? "
      (match-string-no-properties 1)
      copyright-current-gpl-version))))
  (replace-match copyright-current-gpl-version t t nil 1)))))
(set (make-local-variable 'copyright-update) nil))

;; If a write-file-hook returns non-nil, the file is presumed to be written.
nil)

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;;;###autoload
(defun copyright-fix-years ()
 "Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
  (let ((s (match-beginning 3))
    (p (make-marker))
  ;; Not line-beg-pos, so we don't mess up leading whitespace.
    ;; (format "..." (substring s 0 (match-end 3)) p))
  nil)))
(copystart (match-beginning 0))

;; In case years are continued over multiple, commented lines.
(goto-char (match-end 1))
(copyright-find-end)
(setq e (copy-marker (1+ (match-end 3))))
(goto-char s)
(while (re-search-forward "[0-9]+" e t)
  (set-marker p (point))
  (goto-char (match-beginning 0))
  (setq year (string-to-number (match-string 0)))
  (and (setq sep (char-before))
       (/= (char-syntax sep) ?\s)
       (/= sep ?-)
       (insert " ")
  (when (< year 100)
    (insert (if (>= year 50) "19" "20")))
  (setq year (+ year (if (>= year 50) 1900 2000)))
  (goto-char p)
  (when copyright-year-ranges
    ;; If the previous thing was a range, don't try to tack more on.
    ;; TODO should merge into existing range if possible.
    (if (eq sep ?-)
      (setq prev-year nil
           year nil)
      (if (and prev-year (= year (1+ prev-year)))
        (setq range-end (point))
      (setq first-year year
           range-start (point)))))
  (setq last p))
(when last
  (when (and copyright-year-ranges
           first-year prev-year
           (> prev-year first-year))
    (goto-char range-end)
    (delete-region range-start range-end)
    (insert (format "-%d" prev-year))
    (goto-char p))
(setq first-year year
     range-start (point)))
(setq prev-year year
      last p))
(when last
  (when (and copyright-year-ranges
           first-year prev-year
           (> prev-year first-year))
    (goto-char range-end)
    (delete-region range-start range-end)
    (insert (format "-%d" prev-year))
    (goto-char last))
;; Don't mess up whitespace after the years.
(skip-chars-backward "\t")
(save-restriction
  (narrow-to-region copystart (point))
;; This is clearly wrong, eg what about comment markers?
;;; (let ((fill-prefix " "))
;;; TODO do not break copyright owner over lines.
  (fill-region (point-min) (point-max)))
(set-marker e nil)
(set-marker p nil))
;; Simply reformatting the years is not copyrightable, so it does
;; not seem right to call this. Also it messes with ranges.
;;;(copyright-update nil t)
  (message "No copyright message"))

;;;###autoload
(define-skeleton copyright
"Insert a copyright by $ORGANIZATION notice at cursor."
"Company: "
comment-start
"Copyright (C) " `(format-time-string "%Y") " by "
(or (getenv "ORGANIZATION")
str)
'(if (copyright-offset-too-large-p)
  (message "Copyright extends beyond `copyright-limit' and won't be updated automatically."))
comment-end

;;; TODO: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
"Update copyright notice for all files in DIRECTORY matching MATCH. If FIX is non-nil, run `copyright-fix-years' instead."
(interactive "DDirectory: \nMFilenames matching (regexp): \n"
(dolist (file (directory-files directory t match nil))
  (unless (file-directory-p file)
    (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
    (let ((enable-local-variables :safe)
          (enable-local-eval nil))
      (find-file file))
    (let ((inhibit-read-only t))
      (if fix
          (copyright-fix-years)
          (copyright-update)))
      (save-buffer)
      (kill-buffer (current-buffer))))

(provide 'copyright)

;; For the copyright sign:
(defalias 'copyright-limit #[nil "\205\203\f`Z\207`\\\207" [copyright-limit copyright-at-end-flag] 2])
(put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)
#@69 Re-search forward or backward depending on `copyright-at-end-flag'.
(defalias 'copyright-re-search #[(regexp &optional bound noerror count) "\203\305\n\f$\207\306\n\f$\207"
[copyright-at-end-flag regexp bound noerror count re-search-backward re-search-forward] 5 (#$ . 3189)])
#@70 Return point-min or point-max, depending on `copyright-at-end-flag'.
(defalias 'copyright-start-point #[nil "\203d\207e\207" [copyright-at-end-flag] 1 (#$ . 3479)])
#@65 Return non-nil if point is too far from the edge of the buffer.
(defalias 'copyright-offset-too-large-p #[nil "\205\203`dZW\207`e\\V\207" [copyright-limit copyright-at-end-flag] 3
(#$ . 3653)])
#@218 Return non-nil if a copyright header suitable for updating is found.
The header must match `copyright-regexp' and `copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses.
(defalias 'copyright-find-copyright #[nil "~\210\300 b\210\301\302\303\217\207" [copyright-start-point err (bytecode "\304\305\306\307\260\n\205\203`\nZ\202`\n\\\310#\207" [copyright-regexp copyright-names-regexp
copyright-limit copyright-at-end-flag copyright-re-search "\\(" "\\)\\([ ]*\n\\)?.*\\(?:" "\\)" t] 6) ((error (message
"Can't update copyright: %s" err) nil))] 3 (#$ . 3862)])
#@175 Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years.
(defalias 'copyright-find-end #[nil "\212g\305=\2053\306u\210\307\310w\210l\2053\2053\311
\312\216\306y\210\313!\205'\314\225b*\2053\n\315\313!*)\205H\306y\210\316!\210\316\317\320\n\"!\210\202\20
7" [comment-start-skip save-match-data-internal copyright-years-regexp regexp inhibit-changing-match-data 44 1 "
" nil match-data ((byte-code "\301\302\"\207" [save-match-data-internal set-match-data evaporate] 3)) looking-at 0 t
re-search-forward format "\\(%s\\)"] 4 (#$ . 4487)])
(defalias 'copyright-update-year #[(replace noquery) "\305\225b\210\306
\210\307\310!\311\225\312Z\311\225{\313\314O\230?\205\247\204>\315
\316\216\317p!\210\212\320\2035\321\322Q\2029\323\324Q!+\205\247\203J\325\326\211\314\311%\207\212\327\
314x)\330!\330`\f\\`{!Z\331\246\305=\203\332`\f\333#f\334=\204x\332`\f\313#f\334=\203\335\f!\210\202\241\212\
336\337\340 \326#\203\217\341\305!\202\220\342)c\210\332`\f\343#f\344=\203\241\344c\210\f\314Oc)\207"
[copyright-current-year noquery #1=#:wconfig replace size 1 copyright-find-end format-time-string "%Y" 3 2 -2 nil
current-window-configuration ((set-window-configuration #1#)) switch-to-buffer y-or-n-p "Replace copyright
year(s) by " "? " "Add " " to copyright? " replace-match t "0-9" string-to-number 100 + -1 45 delete-char re-searchbackward "[0-9]\\( *, *\\)[0-9]" line-beginning-position match-string ", " -3 39] 6])
#@369 Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively.
(defalias 'copyright-update #[(&optional arg interactivep) "\204\205\207\n?\206\n\306=\205\212\214\307
\203~\310\f\"\210\311 b\210
\203~\312\313\205@\203<`Z\202@`\\\314#\203~\315\316\317!!\315
!W\203~\204v\320 \321\216\317\225b\210\322 \323\216\324p!\210\325\326\327\330\317!
#!,\203~\331
\314\211\332\317%\210)\333\300!\210\332*\332\207" [copyright-update interactivep copyright-query noquery arg
copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point

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id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
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id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#    dlitz@dlitz.net
# requested that this message be sent to:-
#    crypt@bis.doc.gov
#    enc@nsa.gov
#    web_site@bis.doc.gov
#    pycrypto@lists.dlitz.net
#    PYTHON-CRYPTO@NIC.SURFNET.NL
#    dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
#
#####################################################################

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in
Canada. I am not certain whether PyCrypto contains enough US-origin
cryptography to be covered by U.S. export controls, but I am submitting
this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
A. HISTORY OF THE SOFTWARE

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

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

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

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

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<th>Owner</th>
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Footnotes:

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From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
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Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
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id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's=20
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
The text in the current LICENSE file (quoted below) is not entirely clear=20
on the point of whether distributing modified versions is allowed. (It=20
says "distribute and use", but not "modify").

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Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a=20
clearer licensing regime. I'm asking as many copyright holders as I can=20
find, starting with you, if I can release PyCrypto under something clearer=20
and more standard. Below, I have quoted a public domain dedication that=20
was recommended in _Intellectual Property and Open Source: A Practical=20

May I, on your behalf, dedicate to the public domain your considerable=20
contributions to PyCrypto, with the following notice?

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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

---
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
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=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

Mark Moraes <moraes@computer.org>
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne
From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
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by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
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Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
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for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
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Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
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--amk

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The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
>
> Regards,
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/. People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can to find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

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```
======================================================================
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======================================================================

Regards,
- Dwayne
```

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1
1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
>
> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?
> >
> > =
> > -=----------------------------------------------------------------------------------
> > The contents of this file are dedicated to the public domain. To
> > the
> > extent that dedication to the public domain is not available,
> > everyone
> > is granted a worldwide, perpetual, royalty-free, non-exclusive
> > license
> > to exercise all rights associated with the contents of this file
> > for
> > any purpose whatsoever. No rights are reserved.
> > =
> > -=----------------------------------------------------------------------------------
>>
>In case I haven’t replied to this yet: Yes, this is fine with me.

robey
On November 23, 2008, you wrote:

> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
> 
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk (www.amk.ca)

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>: 

> Hi Joris,
> 
> > I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
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--amk (www.amk.ca)

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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.

Regards,

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> 
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
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> 
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> ================================================================
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Hi Paul,

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I understand that you have made contributions to PyCrypto, under nickname “z3p” and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Paul,
> 
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
> > working on a new release at http://www.pycrypto.org/.
>
> That's great!
I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. On your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice:

The contents of this file are dedicated to the public domain.

Yes, that's fine. Good luck with the new release!

-p

--.20

Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>>
>>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>>> working on a new release at http://www.pycrypto.org/.
>>>
>> That's great!
>
>>> I understand that you have made contributions to PyCrypto, under nickname
>>> "z3p" and/or other names. May I, on your behalf, dedicate to the public
>>> domain all your contributions to PyCrypto, with the following notice?
>>> >>>
>>> >>> ==---------------------------------------------------------------------
>>> >>> The contents of this file are dedicated to the public domain. To the
>>> >>> extent that dedication to the public domain is not available, everyone
>>> >>> is granted a worldwide, perpetual, royalty-free, non-exclusive license
>>> >>> to exercise all rights associated with the contents of this file for
>>> >>> any purpose whatsoever. No rights are reserved.
>>> >>> ==---------------------------------------------------------------------
>>>>
>> Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED174 A24928 CEC1339 C25CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Status: RO
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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===================================================================
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important Python library.

> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtrXIVAQLzJgP/eeG+jdZwNvPJrfsa6rhY6+MHLDFH6agk
evJnSjQAcvNHznVileVeR5iXgvDUMakZjU4SOV7MqKhsKA9Ie77PaD9VSYgn3ra5
gEiw2DQDoOy5GEXXMm74qrrb1PCChCRmpaYN0d1ZoHwHkeFBjwDRA3wItOrH7
SK4w9VBJtfY=3D
=3DQduY
-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear
on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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(www.amk.ca)

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
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> Code_ by Van Lindberg. I have already contacted A. M. Kuchling, Robey
> Pointer, and Wim Lewis, and they have all approved the following text for
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> 
>
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Regards,
- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
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Hi Dwayne.<div>My contribution to pycrypto are very very minimal (The sha256 module, IIRC). </div><div>I&amp;#39;d be fine with the public domain license for PyCrypto.</div><div><div></div></div><div>Jeethu Rao</div><div>PS: Apologies for the delay in my response.=A0</div><div>Jeethu Rao</div><div>On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger &lt;dlitz@dlitz.net&gt; wrote:<br>&gt; Hi Jeethu,&lt;br&gt;&gt; I don&amp;#39;t really check this email address all that often.&lt;/div&gt;&lt;div&gt;= please direct any further correspondence to &lt;a href=3D"mailto:jeethu@jeethurao.com" rel=3D"noreferrer"&gt;jeethu@jeethurao.com&lt;/a&gt;&lt;br&gt;&lt;div class=3D"gmail_quote"&gt;On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger &lt;span dir=3D"ltr"&gt;&lt;a href=3D"mailto:dlitz@dlitz.net"&gt;dlitz@dlitz.net&lt;/a&gt;&lt;/span&gt; wrote:&lt;br&gt;&gt; Hi Jeethu,&lt;br&gt;&lt;/div&gt;&lt;blockquote class=3D"gmail_quote"&gt;Hi Jeethu,<br&gt;&lt;br&gt;I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at &lt;a href=3D"http://www.pycrypto.org/" target=3D"_blank"&gt;http://www.pycrypto.org/</a&gt;.&lt;br&gt;&lt;br&gt;People often ask me what license PyCrypto is covered by, if it&amp;#39;s GPL-compatible, etc. =A0Right now, I&amp;#39;m not really sure what to tell them. =A0=0D=0A</div>
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Previous maintainers:

* [Craig Citro](https://github.com/craigcitro)
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1.83 festival 1.96 :28.el7

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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

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

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

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

<printer id="printer/Epson-EPL-5800PS">
<make>Epson</make>
<model>EPL-5800PS</model>
<mechanism>
<laser/>
<resolution>
<dpi>
<x>1200</x>
<y>1200</y>
</dpi>
</resolution>
</mechanism>
<url>http://www.epson.co.uk/product/printers/lasers/epl5800/</url>
<lang>
<postscript level="3" />
<pcl level="6" />
<pjl />
<text>
<charset>us-ascii</charset>
</text>
</lang>
<functionality>A</functionality>
<driver>eplaser</driver>
<comments>
<en>
PostScript version of the EPL-5800<p>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.<p>

Consumables/Refills: toner cartridge, drum cartridge<p>
</en>
</comments>
</printer>

<printer id="printer/Epson-EPL-N2700">
<make>Epson</make>
<model>EPL-N2700</model>

<mechanism>
  <color />
  <resolution>
    <dpi>
      <x>600</x>
      <y>600</y>
    </dpi>
  </resolution>
</mechanism>

<lang>
  <postscript level="3" />
  <pjl />
</lang>

<autodetect>
  <general>
    <ieee1284>MFG:Epson;MDL:EPL-N2700;</ieee1284>
    <manufacturer>Epson</manufacturer>
    <model>EPL-N2700</model>
  </general>
</autodetect>

<functionality>A</functionality>
<driver>Postscript-Epson</driver>
<drivers>
  <driver>
    <id>Postscript</id>
  </driver>
  <driver>
    <id>Postscript-Epson</id>
    <ppd>PPD/Epson/epln2700.ppd</ppd>
  </driver>
</drivers>

<comments>
  <en>
    This database entry was automatically generated from the PPD file for this printer. <p>
    Maximum paper width: 11.7 inches / 29.7 cm (Wide format printer)<p>
    Printing engine speed: 27 pages/min<p>
  </en>
</comments>

<printer id="printer/Epson-EPL-5800L">  
  <make>Epson</make>
</printer>
<model>EPL-5800L</model>
<mechanism>
<laser />
<resolution>
<dpi>
<x>1200</x>
<y>600</y>
</dpi>
</resolution>
</mechanism>
<url>http://www.epson.co.uk/sohoprod/printers/lasers/epl5800l/</url>
<lang>
<proprietary />
</lang>
<functionality>B</functionality>
<driver>epsonepl</driver>
<comments>
<en>
Known not to use a standard protocol as PostScript or PCL; not to be confused with the <a href="show_printer.cgi?recnum=Epson-EPL-5800">EPL-5800</a>. EPL-5800
<p>
Dr H. T. Leung and Roberto Ragusa have developed a <a href="http://epsonepl.sourceforge.net/">driver</a>; based on reverse-engineering of the printer's protocol. <p>
Printing through the parallel port works, USB is not tested yet. <p><p>
Consumables/Refills: Separate photoconductor drum and toner cartridge<p>
</en>
</comments>
</printer>
<printer id="printer/Epson-EPL-5700">
<make>Epson</make>
<model>EPL-5700</model>
<mechanism>
<laser />
<resolution>
<dpi>
<x>600</x>
<y>600</y>
</dpi>
</resolution>
</mechanism>
<url>http://support.epson.com/hardware/printer/laser/epl57i/index.html</url>

<lang>
<pcl level="5" />
<pjl />
<text>
<charset>us-ascii</charset>
</text>
</lang>

<autodetect>
<parallel>
<commandset>PJL,EJL,ESCPL2-00,ESCP9-84,PRP</commandset>
<description>EPSON EPL-5700</description>
<manufacturer>EPSON</manufacturer>
 modelBuilder=EPL-5700
</parallel>
</autodetect>

<functionality>B</functionality>
<driver>hpijs-pcl5e</driver>
<comments>
<en>
Works OK but only in 300 dpi mode. 600 dpi is mostly OK but some glitches appear in text. <p>

This printer is not to be confused with the European-market <a href="show_printer.cgi?recnum=Epson-EPL-5700L">EPL-5700L</a>, which is a winprinter for which there is only partial support for now. <p>

Consumables/Refills: toner (UKP60), electrostatic drum (UKP40)<p>

</en>
</comments>
</printer>

<printer id="printer/Epson-EPL-6100L">
<make>Epson</make>
 modelBuilder=EPL-6100L
<mechanism>
<laser />
<resolution>
<dpi>
<x>600</x>
<y>600</y>
</dpi>
</resolution>
</mechanism>
</printer>

<url>http://www.epson.co.uk/sohoprod/printers/lasers/epl6100l/</url>

<lang>
Known not to use a standard protocol as PostScript or PCL; not to be confused with the <a href="show_printer.cgi?recnum=Epson-EPL-6100">EPL-6100</a>. 

Dr H. T. Leung and Roberto Ragusa have developed a <a href="http://epsonepl.sourceforge.net/">driver</a>; based on reverse-engineering of the printer's protocol.

The printer has parallel and USB connectors.

This printer probably works with this driver but was not fully tested yet. Any test report is welcome.

Consumables/Refills: Separate photoconductor drum and toner cartridge

---

<printer id="printer/Epson-EPL-N2050PSplus">
  <make>Epson</make>
  <model>EPL-N2050PS+</model>
  <mechanism>
    <laser />
    <resolution>
      <dpi>
        <x>1200</x>
        <y>1200</y>
      </dpi>
    </resolution>
  </mechanism>
  <url>http://www.epson.co.uk/product/printers/lasers/epln2050p/index.htm</url>
  <postscript level="3" />
  <pcl level="6" />
  <pjl />
  <text>
    <charset>us-ascii</charset>
  </text>
</printer>
Open Source Used In Foundation RHEL7.6

PostScript version of the EPL-N2050+<p>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.<p>

Consumables/Refills: toner cartridge, drum cartridge<p>

Dr H. T. Leung and Roberto Ragusa have developed a <a href="http://epsonepl.sourceforge.net/">driver</a>; based on reverse-engineering of the printer's protocol.<p>

Printing works through both the parallel and USB port.<p>

Consumables/Refills: Separate photoconductor drum and toner cartridge<p>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Consumables/Refills: toner cartridge, drum cartridge
I don’t know what is the difference between the EPL-5200 and the EPL-5200+.

Known not to use a standard protocol as PostScript or PCL; not to be confused with the a href="show_printer.cgi?recnum=Epson-EPL-5700">EPL-5700</a>. Dr H. T. Leung and Roberto Ragusa have developed a a href="http://epsonepl.sourceforge.net/">driver</a>; based on reverse-engineering of the printer's protocol.

Printing works through both the parallel and USB port.

Consumables/Refills: Separate photoconductor drum and toner cartridge.
This database entry was automatically generated from the PPD file for this printer.  

Maximum paper width: 11.7 inches / 29.7 cm  
(Wide format printer)  

Printing engine speed: 35 pages/min
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Consumables/Refills: toner cartridge, drum cartridge
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Consumables/Refills: toner cartridge, drum cartridge

PostScript version of the EPL-N2550+

Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Consumables/Refills: toner cartridge, drum cartridge
Maximum paper width: 11.7 inches / 29.7 cm
(Wide format printer)<p>
Printing engine speed: 25 pages/min<p>

This database entry was automatically generated from the PPD file for this printer.<p>
from the PPD file for this printer.<p>

Maximum paper width: 8.5 inches / 21.6 cm
(Standard format printer)<p>

Printing engine speed: 20 pages/min<p>

</en>
</comments>
</printer>

<printer id="printer/Epson-EPL-7100">
<make>Epson</make>
<model>EPL-7100</model>
<mechanism>
<laser />
<resolution>
<dpi>
<x>600</x>
<y>600</y>
</dpi>
</resolution>
</mechanism>
<branch>
<pcl />
</text>
<charset>us-ascii</charset>
</text>
</lang>
</printer>

<printer id="printer/Epson-EPL-5900_PS3">
<make>Epson</make>
<model>EPL-5900 PS3</model>
<mechanism>
<laser />
<resolution>
<dpi>
<x>1200</x>
<y>1200</y>
</dpi>
</resolution>
</mechanism>
<branch>
<pcl />
</text>
<charset>us-ascii</charset>
</text>
</lang>
</printer>

He's put together a PDQ driver declaration, or it ought to work fine when configured using any vendor's setup tools.</en>
</comments>
</printer>
PostScript version of the Epson EPL-5900

Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Unfortunately, Epson's "eplaser" driver (or perhaps the printer's firmware) is somewhat buggy. It prints most documents, but images converted to PostScript with
"convert" or by the built-in filters of CUPS leads often to incorrect printouts (stretched by a factor of 3 or 4 in horizontal direction). So it is recommended to use this printer in PostScript mode, uncompressed PPD files are on the CD delivered with the PostScript module, use the PPD files for Windows NT 4.0, they should work with all spoolers/applications under free OS.<p>

Further tests with the "pxlmono" driver did not show this problem. The printer works perfectly in 1200 dpi with this driver, only full-page photos take very long to be rendered.<p>

Consumables/Refills: toner cartridge, drum cartridge<p>
be confused with the <a href="show_printer.cgi?recnum=Epson-EPL-6100">EPL-6100</a>.
<p>

Dr H. T. Leung and Roberto Ragusa have developed a <a href="http://epsonepl.sourceforge.net/">driver</a>; based on reverse-engineering of the printer's protocol. <p>

The printer has parallel and USB connectors. <p>

This printer probably works with this driver but was not fully tested yet. Any test report is welcome. <p>

Consumables/Refills: Separate photoconductor drum and toner cartridge<p>

</en>
</comments>
</printer>
<printer id="printer/Epson-EPL-N1600PS">
<make>Epson</make>
<model>EPL-N1600PS</model>
<mechanism>
<laser />
<resolution>
<dpi>
<x>600</x>
<y>600</y>
</dpi>
</resolution>
</mechanism>
<url>http://www.epson.co.uk/product/printers/lasers/epl5800/</url>
<lang>
<postscript level="2" />
<pcl level="5e" />
<pjl />
<text>
<charset>us-ascii</charset>
</text>
</lang>
<functionality>A</functionality>
<driver>Postscript</driver>
<comments>
<en>
PostScript version of the EPL-N1600<p>

Consumables/Refills: toner cartridge, drum cartridge<p>
</en>
</comments>
This printer is not to be confused with the European-market <a href="show_printer.cgi?recnum=Epson-EPL-5700L">EPL-5700L</a>, which is a winprinter (but is supported though).<p>

Consumables/Refills: toner (UKP60), electrostatic drum (UKP40)<p>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.<p>

"N" version with network adapter and "PS" version with PostScript interpreter available.<p> <p>

Consumables/Refills: toner cartridge, drum cartridge<p>
PostScript version of the EPL-N2500

Consumables/Refills: toner cartridge, drum cartridge

Consumables/Refills: toner cartridge, drum cartridge
<dpi>
  <x>600</x>
  <y>600</y>
</dpi>
</resolution>
</mechanism>
<url>http://www.epson.co.uk/product/printers/lasers/compare.htm</url>

<lang>
  <pcl level="5e" />
  <pjl />
  <text>
    <charset>us-ascii</charset>
  </text>
</lang>

<autodetect>
  <general>
    <commandset>PJL,EJL,ESCPL2-00,ESCP9-84,PRP</commandset>
    <description>EPSON EPL-N1600</description>
    <manufacturer>EPSON</manufacturer>
    <model>EPL-N1600</model>
  </general>
</autodetect>

<functionality>A</functionality>
<driver>hpijs-pcl5e</driver>
<comments>
  <en>
    Consumables/Refills: toner cartridge, drum cartridge
  </en>
</comments>
</printer>

<printer id="printer/Epson-EPL-5200">
  <make>Epson</make>
  <model>EPL-5200</model>
  <mechanism>
    <laser />
    <resolution>
      <dpi>
        <x>300</x>
        <y>300</y>
      </dpi>
    </resolution>
  </mechanism>
  <url>http://www.epson.com</url>
  <lang>
    <pcl level="5" />
    <text>
      <charset>us-ascii</charset>
    </text>
  </lang>
</printer>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Consumables/Refills: toner cartridge, drum cartridge
<functionality>F</functionality>
<comments>
<en>Doesn't seem to print without its "Windows Printing System". Connected to a Windows box the software emulates Laserjet2. This allows you to print via Samba with 300x300 dpi.
<br>Keep in mind that there is no support for any Windows but Win95 and Win3.1(1).
<br>Prints out completely black pages if Windows Box has not enough memory available.
<br>Important! Mind the "W", there's a EPL-5500 without "W", too, this one might work.</en>
</comments>

<printer>
<printer id="printer/Epson-EPL-6100_PS3">
<make>Epson</make>
<model>EPL-6100 PS3</model>
<mechanism>
<laser />
<resolution>
<dpi>
<x>1200</x>
<y>1200</y>
</dpi>
</resolution>
</mechanism>
$url>http://www.epson.co.uk/product/printers/lasers/epl6100/</url>
<br />
<lang>
<pcl level="6" />
<pjl />
<text>
<charset>us-ascii</charset>
</text>
</lang>
<autodetect>
<general>
<ieee1284>MFG:Epson;MDL:EPL-6100 PS3;</ieee1284>
<manufacturer>Epson</manufacturer>
<model>EPL-6100 PS3</model>
</general>
</autodetect>
</printer>
<functionality>A</functionality>
<driver>Postscript-Epson</driver>
<drivers>
<driver>
<id>eplaser</id>
</driver>
<driver>
<id>lj5gray</id>
</driver>
PostScript version of the EPL-6100<p>

Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.<p>

"N" version with network adapter and "PS3" version with PostScript interpreter available.<p><p>

Consumables/Refills: toner cartridge, drum cartridge<p>

</en>
</comments>
</printer>
<printer id="printer/Epson-EPL-N2120">
<make>Epson</make>
<model>EPL-N2120</model>
<mechanism>
<laser />
<resolution>
<dpi>
<x>1200</x>
<y>1200</y>
</dpi>
</resolution>
</mechanism>
<lang>
<pcl level="6" />
<pjl />
<text>
<charset>us-ascii</charset>
</text>
</lang>
<functionality>A</functionality>
Large format (A3/11x17) laser printer
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Consumables/Refills: toner cartridge, drum cartridge

This database entry was automatically generated from the PPD file for this printer.
Maximum paper width: 8.5 inches / 21.6 cm
(Standard format printer)<p>

Printing engine speed: 35 pages/min<p>

</en>
</comments>
</printer>
<printer id="printer/Epson-EPL-N2750">
<make>Epson</make>
<model>EPL-N2750</model>
<mechanism>
<laser />
<resolution>
<dpi>
<x>600</x>
<y>600</y>
</dpi>
</resolution>
</mechanism>
<url>http://www.epson.co.uk/product/printers/lasers/epln2750/index.htm</url>
<lang>
pcl level="6" />
<pjl />
<text>
<charset>us-ascii</charset>
</text>
</lang>
<functionality>A</functionality>
<driver>ep laser</driver>
<comments>
en
A3/11x17 large format laser<p>
Consumables/Refills: toner cartridge, drum cartridge<p>
</en>
</comments>
</printer>
<printer id="printer/Epson-EPL-5900">
<make>Epson</make>
<model>EPL-5900</model>
<mechanism>
<laser />
<resolution>
<dpi>
<x>1200</x>
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<comments>
en
A3/11x17 large format laser<p>
Consumables/Refills: toner cartridge, drum cartridge<p>
</en>
</comments>
</printer>
Epson provides a free (LGPL) driver for this printer. With this the printer should work to its full extent.

Consumables/Refills: toner cartridge, drum cartridge
PostScript version of the EPL-N2750
A3/11x17 large format laser
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1.93 fprintd 0.8.1 :2.el7
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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Ty Coon, President of Vice

That's all there is to it!

1.97 gamin 0.1.10 :16.el7
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# along with this program. If not, see <http://www.gnu.org/licenses/>.
"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

def get_update_list():
"""Return the list of files to update.
Assumes that the current working directory when called is the root
of the GDB source tree (NOT the gdb/ subdirectory!). The names of
the files are relative to that root directory.
"""
result = []

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for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
        for filename in files:
            relpath = "%s/%s" % (root, filename)
            if (filename in EXCLUDE_ALL_LIST
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
            else:
                result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.
    We use gnulib’s update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK’ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]
    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

main ():
"""The main subprogram."""
if not os.path.isfile("gnulib/import/extra/update-copyright"):  
    print "Error: This script must be called from the gdb directory."
root_dir = os.path.dirname(os.getcwd())
os.chdir(root_dir)

update_list = get_update_list()
update_files (update_list)

# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
    for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

############################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/CONTRIBUTE',
    'gdb/gnulib'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4".
)
# The list of files to update by hand.

BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/tessuite/gdb.base/step-line.inp",
    "gdb/tessuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.

MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.

NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/tessuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcpro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armedefs.h",
    "sim/arm/armeopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/lid-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phib.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",}
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.c", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phh.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/ff.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/decode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-itable.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm.n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
BEGIN{
    FS="\"";
    print "" Do not modify this file!! " \
    ".*- buffer-read-only: t -.* vi" \\ 
    ":set ro;"
    print " It is created automatically by copying.awk.;"
    print " Modify copying.awk instead. <= = #;/"
    print ""
    print "#include \"defs.h\""
print 
#include "command.h"
#include "gdbcmd.h"
print
print "static void show_copying_command (char *, int);"
print
print "static void show_warranty_command (char *, int);"
print
print "void _initialize_copying (void);"
print
print "static void";
print "show_copying_command (char *ignore, int from_tty)");
print 
NR == 1/^[ ]*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ //)
{
  printf " printf_filtered ("\n\n\n";
}
else if ($0 !~ ^/[ ]*15\. Disclaimer of Warranty\[ ]*$/
{
  printf " printf_filtered ("\n"
  for (i = 1; i < NF; i++)
printf "%s\n", $i;
  printf ("%s\n\n"), $NF;
}

/^[ ]*15\. Disclaimer of Warranty\[ ]*$/
  printf ");

/^[ ]*15\. Disclaimer of Warranty\[ ]*$/, END OF TERMS AND CONDITIONS[ ]*$/
if (!$0 ~ /[ ]*END OF TERMS AND CONDITIONS[ ]*$/
{
  printf " printf_filtered ("\n"
  for (i = 1; i < NF; i++)
printf "%s\n", $i;
  printf ("%s\n\n"), $NF;
}
END{
  printf ");

END";
print " add_cmd ("copying", no_set_class, show_copying_command, ");
print " _("Conditions for redistributing copies of GDB.");"
print " &showlist);";
print " add_cmd ("warranty", no_set_class, show_warranty_command, ");
print " _("Various kinds of warranty you do not have.");"
print " &showlist);";
print " */
print " /* For old-timers, allow \"info copying\", etc. */
print " add_info ("copying", show_copying_command, ");
print " _("Conditions for redistributing copies of GDB.");"
print " add_info ("warranty", show_warranty_command, ");
print " _("Various kinds of warranty you do not have.");"
print ");";

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Version 2.1, February 1999

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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.

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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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@page
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The reason we have a separate public license for some libraries is that
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

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

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

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

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Version 3, 29 June 2007

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"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.
A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

Preamble

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.
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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Whether this is true is especially significant if the work can be
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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,
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1.107 gfs2-utils 3.1.10 :9.el7

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5055942 Photographic image reproduction device using digital halftoning to screen images allowing adjustable coarseness

5917614 Method and apparatus for error diffusion screening of images with improved smoothness in highlight and shadow regions

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.1.4, March 11th, 2002

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

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

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Date: Mon, 21 Jul 2008 11:43:35 -0600
From: Kevin Hartig <kevin.hartig@gmail.com>
To: "Tom "spot" Callaway" <tcallawa@redhat.com>
Subject: Re: Licensing question

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-kevin.

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"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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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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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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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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.

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6ee9f979a5488dab01088412f88374b2ea9d615cd/src/demos/Makefile.am
--- mesa-demos-6ee9f979a5488dab01088412f88374b2ea9d615cd/src/demos/Makefile.am
+++ mesa-demos-6ee9f979a5488dab01088412f88374b2ea9d615cd/src/demos/Makefile.am
11:24:38.805867866 -0500
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@@ -65,7 +65,6 @@ bin_PROGRAMS = \\
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paltex \npixeltext \npointblast \nprojtex \nray \nreadpix \n@@ -74,7 +73,6 @@ bin_PROGRAMS = \nshadowtex \nsinglebuffer \nspectex \n-spriteblast \nstex3d \nteapot \nterrain \nClient application for querying drivers' configuration information
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1.116 gnome-bluetooth-libs 3.28.2 :1.el7

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1.117 gnome-icon-theme 3.12.0 :1.el7

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1.118 gnome-keyring 3.28.2 :1.el7

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<?xml version="1.0" encoding="UTF-8"?>
<!-- Generated with glade 3.20.0 -->
<interface>
<requires lib="gtk+" version="3.18"/>
<object class="GtkWindow" id="dialog_eula">
<property name="can_focus">False</property>
<property name="border_width">18</property>
<child>
<object class="GtkGrid">
<property name="can_focus">False</property>
<property name="row_spacing">12</property>
License required for foo-devel by Acme Corp.

Please read the following important information before continuing.
1.121 gnome-python2 2.28.1 :14.el7

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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1.122 gnome-session 3.28.1 :6.el7

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1.123 gnome-settings-daemon 3.28.1 :2.el7

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Section 6 states terms for distribution of such executables.

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

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

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

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

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not
covered by this license; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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1.127 gnupg2 2.0.22 :5.el7_5

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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compelled to copy the source along with the object code.

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Whether this is true is especially significant if the work can be
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functions (ten lines or less in length), then the use of the object
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Any executables containing that work also fall under Section 6,
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b) Accompany the work with a written offer, valid for at
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1.136 gstreamer-plugins-base 0.10.36

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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work containing portions of the Library, and distribute that work
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library
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TERMS AND CONDITIONS
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A "covered work" means either the unmodified Program or a work based on the Program.

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

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

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

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years 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
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Corresponding Source from a network server at no charge.

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only if you received the object code with such an offer, in accord
with subsection 6b.

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A separable portion of the object code, whose source code is excluded
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typical or common use of that class of product, regardless of the status
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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.

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```

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s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' + comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
} else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>'); 
}
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/*  
   ZeusBench V1.01

   ===============

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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An almost complete rewrite of MySpell for use by the Mozilla project has been developed by David Einstein (Deinst@world.std.com). David and I are now working on parallel development tracks to help our respective projects (Mozilla and OpenOffice.org) and we will maintain full affix file and dictionary file compatibility and work on merging our versions of MySpell back into a single tree. David has been a significant help in improving MySpell.

Special thanks also go to La'szlo' Ne'meth <nemethl@gyorsposta.hu> who is the author of the Hungarian dictionary and who developed and contributed the code to support compound words in MySpell and fixed numerous problems with the encoding case conversion tables.

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    ga.src = ('https:' == document.location.protocol ? 'https://' : 'http://') + '.google-analytics.com/ga.js';
    var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
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/*
 * include/uapi/linux/devlink.h - Network physical device Netlink interface
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 * /
 */

#ifndef _LINUX_DEVLINK_H_
#define _LINUX_DEVLINK_H_

#define DEVLINK_GENL_NAME "devlink"
#define DEVLINK_GENL_VERSION 0x1
#define DEVLINK_GENL_MCGRP_CONFIG_NAME "config"

enum devlink_command {
  /* don't change the order or add anything between, this is ABI! */
  DEVLINK_CMD_UNSPEC,
DEVLINK_CMD_GET, /* can dump */
DEVLINK_CMD_SET,
DEVLINK_CMD_NEW,
DEVLINK_CMD_DEL,

DEVLINK_CMD_PORT_GET, /* can dump */
DEVLINK_CMD_PORT_SET,
DEVLINK_CMD_PORT_NEW,
DEVLINK_CMD_PORT_DEL,

DEVLINK_CMD_PORT_SPLIT,
DEVLINK_CMD_PORT_UNSPLIT,

DEVLINK_CMD_SB_GET, /* can dump */
DEVLINK_CMD_SB_SET,
DEVLINK_CMD_SB_NEW,
DEVLINK_CMD_SB_DEL,

DEVLINK_CMD_SB_POOL_GET, /* can dump */
DEVLINK_CMD_SB_POOL_SET,
DEVLINK_CMD_SB_POOL_NEW,
DEVLINK_CMD_SB_POOL_DEL,

DEVLINK_CMD_SB_PORT_POOL_GET, /* can dump */
DEVLINK_CMD_SB_PORT_POOL_SET,
DEVLINK_CMD_SB_PORT_POOL_NEW,
DEVLINK_CMD_SB_PORT_POOL_DEL,

DEVLINK_CMD_SB_TC_POOL_BIND_GET, /* can dump */
DEVLINK_CMD_SB_TC_POOL_BIND_SET,
DEVLINK_CMD_SB_TC_POOL_BIND_NEW,
DEVLINK_CMD_SB_TC_POOL_BIND_DEL,

/* Shared buffer occupancy monitoring commands */
DEVLINK_CMD_SB_OCC_SNAPSHOT,
DEVLINK_CMD_SB_OCC_MAX_CLEAR,

DEVLINK_CMD_ESWITCH_GET,
#define DEVLINK_CMD_ESWITCH_MODE_GET /* obsolete, never use this! */ \DEVLINK_CMD_ESWITCH_GET

DEVLINK_CMD_ESWITCH_SET,
#define DEVLINK_CMD_ESWITCH_MODE_SET /* obsolete, never use this! */ \DEVLINK_CMD_ESWITCH_SET

/* add new commands above here */
__DEVLINK_CMD_MAX,
DEVLINK_CMD_MAX = __DEVLINK_CMD_MAX - 1
};

enum devlink_port_type {
DEVLINK_PORT_TYPE_NOTSET,
DEVLINK_PORT_TYPE_AUTO,
DEVLINK_PORT_TYPE_ETH,
DEVLINK_PORT_TYPE_IB,
};

enum devlink_sb_pool_type {
DEVLINK_SB_POOL_TYPE_INGRESS,
DEVLINK_SB_POOL_TYPE_EGRESS,
};

/* static threshold - limiting the maximum number of bytes.
* dynamic threshold - limiting the maximum number of bytes
* based on the currently available free space in the shared buffer pool.
* In this mode, the maximum quota is calculated based
* on the following formula:
*   max_quota = alpha / (1 + alpha) * Free_Buffer
* While Free_Buffer is the amount of none-occupied buffer associated to
* the relevant pool.
* The value range which can be passed is 0-20 and serves
* for computation of alpha by following formula:
*   alpha = 2 ^ (passed_value - 10)
*/

enum devlink_sb_threshold_type {
DEVLINK_SB_THRESHOLD_TYPE_STATIC,
DEVLINK_SB_THRESHOLD_TYPE_DYNAMIC,
};

#define DEVLINK_SB_THRESHOLD_TO_ALPHA_MAX 20

enum devlink_eswitch_mode {
DEVLINK_ESWITCH_MODE_LEGACY,
DEVLINK_ESWITCH_MODE_SWITCHDEV,
};

enum devlink_eswitch_inline_mode {
DEVLINK_ESWITCH_INLINE_MODE_NONE,
DEVLINK_ESWITCH_INLINE_MODE_LINK,
DEVLINK_ESWITCH_INLINE_MODE_NETWORK,
DEVLINK_ESWITCH_INLINE_MODE_TRANSPORT,
};
enum devlink_attr {
    /* don't change the order or add anything between, this is ABI */
    DEVLINK_ATTR_UNSPEC,

    /* bus name + dev name together are a handle for devlink entity */
    DEVLINK_ATTR_BUS_NAME, /* string */
    DEVLINK_ATTR_DEV_NAME, /* string */

    DEVLINK_ATTR_PORT_INDEX, /* u32 */
    DEVLINK_ATTR_PORT_TYPE, /* u16 */
    DEVLINK_ATTR_PORT_DESIRED_TYPE, /* u16 */
    DEVLINK_ATTR_PORT_NETDEV_IFINDEX, /* u32 */
    DEVLINK_ATTR_PORT_NETDEV_NAME, /* string */
    DEVLINK_ATTR_PORT_IBDEV_NAME, /* string */
    DEVLINK_ATTR_PORT_SPLIT_COUNT, /* u32 */
    DEVLINK_ATTR_PORT_SPLIT_GROUP, /* u32 */
    DEVLINK_ATTR_SB_INDEX, /* u32 */
    DEVLINK_ATTR_SB_SIZE, /* u32 */
    DEVLINK_ATTR_SB_INGRESS_POOL_COUNT, /* u16 */
    DEVLINK_ATTR_SB_EGRESS_POOL_COUNT, /* u16 */
    DEVLINK_ATTR_SB_INGRESS_TC_COUNT, /* u16 */
    DEVLINK_ATTR_SB_EGRESS_TC_COUNT, /* u16 */
    DEVLINK_ATTR_SB_POOL_INDEX, /* u16 */
    DEVLINK_ATTR_SB_POOL_TYPE, /* u8 */
    DEVLINK_ATTR_SB_POOL_SIZE, /* u32 */
    DEVLINK_ATTR_SB_POOL_THRESHOLD_TYPE, /* u8 */
    DEVLINK_ATTR_SB_TC_INDEX, /* u16 */
    DEVLINK_ATTR_SB_OCC_CUR, /* u32 */
    DEVLINK_ATTR_SB_OCC_MAX, /* u32 */
    DEVLINK_ATTR_ESWITCH_MODE, /* u16 */
    DEVLINK_ATTR_ESWITCH_INLINE_MODE, /* u8 */

    /* add new attributes above here, update the policy in devlink.c */

    __DEVLINK_ATTR_MAX,
    DEVLINK_ATTR_MAX = __DEVLINK_ATTR_MAX - 1
};

#endif /* _LINUX_DEVLINK_H_ */

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1.155 iptables 1.4.21 :28.el7

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1.162 jasper 1.900.1 :33.el7

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1.163 json-c 0.11 :4.el7_0
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1.164 kbd 1.15.5 :15.el7
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# PC Screen (console) Fonts - psf1 header  
#  
0  leshort  0x0436  psf screen font data  
>2 byte  0  256 characters, no index  
>2 byte  1  512 characters, no index  
>2byte2256 characters, Unicode index  
>2byte3512 characters, Unicode index  
>2byte4256 characters, Unicode level 2 index  
>2byte5512 characters, Unicode level 2 index  
>3byte254x%d  
#  
# PC Screen (console) Fonts - psf2 header  
#  
0  lelong0x864ab572psf2 screen font data
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spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
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1.165 kernel 3.10.0 :957.12.2.el7

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 *    interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 *    and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 *    loss of link, and correctly re-enable PHY when link is
 *    re-established. (put back CFG_PHYIE)
 *  
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*   as needed. This means that data must always be copied to create
*   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*   Fix is simple: make large buffers large enough to hold entire
*   SDU, and leave <small_buffer_data> bytes empty at the start. Then
*   copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*   buffers. This is done by 2 things:
*     1) skb->destructor / skb->atm.recycle_buffer
*        combined, allow nicstar_free_rx_skb to be called to
*        recycle large data buffers
*     2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*   details.
*   *
*   *
*   *

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

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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
                   || strcmp(license, "GPL v2") == 0
                   || strcmp(license, "GPL and additional rights") == 0
                   || strcmp(license, "Dual BSD/GPL") == 0
                   || strcmp(license, "Dual MIT/GPL") == 0
                   || strcmp(license, "Dual MPL/GPL") == 0);
}

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QLogic Linux qlge NIC Driver

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1.166 kexec-tools 2.0.15 :21.el7_6.3

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```python
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# import os
import re
__all__ = ['getReservedMemory', 'getTotalMemory', 'getMemoryBounds']

import blivet.arch

_reservedMemory = None
def getReservedMemory():
    """Return the amount of memory currently reserved for kdump in MB."""
```
global _reservedMemory

# Check if the value has already been read
if _reservedMemory is not None:
    return _reservedMemory

try:
    with open("/sys/kernel/kexec_crash_size", "r") as fobj:
        _reservedMemory = int(fobj.read()) / (1024*1024)
    return _reservedMemory
except (ValueError, IOError):
    return 0

def getTotalMemory():
    ""
    Return the total amount of system memory in MB
    
    This is the amount reported by /proc/meminfo plus the amount 
    currently reserved for kdump.
    ""
    memkb = 0
    fd = open('/proc/meminfo').read()
    matched = re.search(r'^MemTotal:\s+(\d+)', fd)
    if matched:
        memkb = int(matched.groups()[0])

    # total_memory return memory in KB, convert to MB
    availMem = memkb / 1024

    return availMem + getReservedMemory()

def getMemoryBounds():
    ""
    Return a tuple of (lower, upper, step) for kdump reservation limits.
    
    If there is not enough memory available to use kdump, both lower and 
    upper will be 0.
    ""
    totalMemory = getTotalMemory()
    arch = blivet.arch.getArch()

    if arch.startswith('ppc64'):
        lowerBound = 384
        minUsable = 1024
        step = 1
    elif arch == 'aarch64':
        lowerBound = 512
        minUsable = 512
        step = 1
else:
    lowerBound = 160
    minUsable = 512
    step = 1

upperBound = (totalMemory - minUsable) - (totalMemory % step)

if upperBound < lowerBound:
    upperBound = lowerBound = 0

return (lowerBound, upperBound, step)

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1.167 keyutils 1.5.8 :3.el7

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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

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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.

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# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        if code_seen:
            warn(fname, ln, 'License after code')
        if nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/-*' and we don't want to change them.
    if line != '' and line != '-*:
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
if '-*- mode: c;' in lines[ln]:
    ln += 1

# Check filename comment if present.
m = re.match(r'/\* (\^[ ]*)\([^\]_]*\)? \*/', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
    ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()

    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]  
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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lib/libgss/g rel_cred.c
lib/libgss/g rel_name.c
lib/libgss/g rel_oid_set.c
lib/libgss/g seal.c
lib/libgss/g sign.c
lib/libgss/g store_cred.c
lib/libgss/g unseal.c
lib/libgss/g userok.c
lib/libgss/g utils.c
lib/libgss/g verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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<span class="n">lib</span>/gssapi/class/mechglue/class/g_rel_name.c
<span class="n">lib</span>/gssapi/class/mechglue/class/g_rel_oid_set.c
and the initial implementation of incremental propagation, including
the following new or changed files:

`include/iprop_hdr.h`

`kadmin/server/ipropd_svc.c`

`lib/kdb/iprop.x`

`lib/kdb/kdb_convert.c`

The initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
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1.170 ksh 2.0120801E7 :139.el7
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```
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  type=epl
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  name="Eclipse Public License"
  version=1.0
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 *
 */

#pragma prototyped

/*
 * bsd
 */

#define bsd_description "The BSD checksum."
#define bsd_options 0
#define bsd_match "bsd|ucb"
#define bsd_open long_open
#define bsd_init long_init
#define bsd_done short_done
#define bsd_print long_print
#define bsd_data long_data
#define bsd_scale 1024

static int
bsd_block(register Sum_t* p, const void* s, size_t n)
{
    register uint32_t c = ((Integral_t*)p)->sum;
    register unsigned char* b = (unsigned char*)s;
    register unsigned char* e = b + n;

    while (b < e)
        c = ((c >> 1) + *b++ + ((c & 01) ? 0x8000 : 0)) & 0xffff;
    ((Integral_t*)p)->sum = c;
    return 0;
}
1.171 latencytop 0.5 :13.el7

1.172 ledmon 0.90 :1.el7

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means...
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation
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Activities other than copying, distribution and modification are not
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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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1.177 libasyncns 0.8 :7.el7

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
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performing this distribution.

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  -r-xr-xr-x 1 0 0 [LSN 27] 0 Mar 05 2005 15:26:00 Copy2
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/:
  dr-xr-xr-x  4 0 0 [LSN  23]  2048 Oct 22 2004 02:21:14 ..
  dr-xr-xr-x  2 0 0 [LSN  23]  2048 Oct 22 2004 02:21:14 ..
  dr-xr-xr-x  2 0 0 [LSN  24]  2048 Mar 05 2005 16:12:25 copy
  lr-xr-xr-x  1 0 0 [LSN  27]  7 Mar 05 2005 15:26:00 Copy2 -> COPYING
  -r-r--r--   1 0 0 [LSN  27] 17992 Mar 05 2005 15:25:51 COPYING
  br--r--r--   1 0 0 [LSN  36]  0 Mar 05 2005 15:32:05 fd0
  dr-xr-xr-x  2 0 0 [LSN  25]  2048 Mar 05 2005 16:12:25 tmp
  cr--r--r--   1 0 0 [LSN  36]  0 Mar 05 2005 15:31:42 zero

/copy/:
  dr-xr-xr-x  2 0 0 [LSN  24]  2048 Mar 05 2005 16:12:25 ..
  dr-xr-xr-x  4 0 0 [LSN  23]  2048 Mar 05 2005 16:12:25 ..
  lr-xr-xr-x  1 0 0 [LSN  36] 10 Mar 05 2005 15:27:05 COPYING -> ../COPYING

/tmp/:
  dr-xr-xr-x  2 0 0 [LSN  25]  2048 Mar 05 2005 16:12:25 ..
  dr-xr-xr-x  4 0 0 [LSN  23]  2048 Mar 05 2005 16:12:25 ..
  lr-xr-xr-x  1 0 0 [LSN  36] 18 Mar 05 2005 15:51:05 COPYING -> ../copying/COPYING

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/:
  d [LSN  23]  2048 Jan 05 2006 21:50:19 ..
  d [LSN  23]  2048 Jan 05 2006 21:50:19 ..
  - [LSN  24] 18002 Jan 05 2006 21:46:30 copying
CD001LINUX Rock Ridge Copy test ""h

Rocky Bernstein
K3b - Version 0.11.20
K3B THE CD KREATOR VERSION 0.11.20 (C) 2003 SEBASTIAN TRUEG AND THE K3B TEAM
2005030511122500200503051112250000000000000000000000000002005030511122500

CD001MKI Sat Mar 5 11:12:25 2005
mkisofs 2.01a17 -gui -graft-points -valid Rock Ridge Copy test -volset -appid K3B THE CD KREATOR
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1.186 libcgroup 0.41 :20.el7

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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1.188 libdaemon 0.14 :7.el7
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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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1.190 libdrm 2.4.91 :3.el7

1.191 libdv 1.0.0 :17.el7
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1.201 libgcrypt 1.5.3 :14.el7

1.201.1 Available under license:

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Version 2.1, February 1999

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"Source code" for a work means the preferred form of the work for
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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**END OF TERMS AND CONDITIONS**

**Appendix: How to Apply These Terms to Your New Libraries**

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

<one line to give the library's name and a brief idea of what it does.>  
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Ty Coon, President of Vice

That's all there is to it!

1.204 libgnome 2.32.1 :9.el7

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Preamble

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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You must give prominent notice with each copy of the work that the
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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
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b) Accompany the work with a written offer, valid for at
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For an executable, the required form of the "work that uses the
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.208 libgpg-error 1.12 :3.el7

1.208.1 Available under license :

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.
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Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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Version 2.1, February 1999

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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4. You may copy and distribute the Library (or a portion or
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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.

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy
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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.

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This library's function is primarily to read and display MNG animations. It is not meant as a full-featured image-editing component! It does however offer creation and editing functionality at the chunk level. (future modifications may include some more support for creation and or editing)

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part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

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Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library".
former contains code derived from the library, while the latter only works together with the library.

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also compile or
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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
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specified materials from the same place.

d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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which the executable runs, unless that component itself accompanies
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permitted, and provided that you do these two things:

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b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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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.

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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:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

MNGPLG
A simple browser plug-in for the MNG image(animation) file format.

By Jason Summers  <jason1@pobox.com>
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1.220 libmount 2.23.2 :59.el7_6.1

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@(#)col.1 6.8 (Berkeley) 6/17/91

.TH COL "1" "September 2011" "util-linux" "User Commands"
.SH NAME
col - filter reverse line feeds from input
.SH SYNOPSIS
.B col
[options]
.SH DESCRIPTION
.B col
filters out reverse (and half-reverse) line feeds so the output is in the correct order with only forward and half-forward line feeds, and replaces white-space characters with tabs where possible. This can be useful in processing the output of
.BR nroff (1)
and
.BR tbl (1).
.PP
.B col
reads from standard input and writes to standard output.
.SH OPTIONS
.TP
\V{b}
\-b, \-\-no-backspaces
Do not output any backspaces, printing only the last character written to each column position.
.TP
\V{f}
\-f, \-\-fine
Forward half line feeds are permitted.
.I fine mode. Normally characters printed on a half-line boundary are printed on the
following line.

\ Brief -p, \ Brief --pass

Force unknown control sequences to be passed through unchanged. Normally, \ Brief col
will filter out any control sequences from the input other than those recognized and interpreted by itself, which are listed below.

\ Brief TP
\ Brief \ Brief -h, \ Brief --tabs

Output tabs instead of multiple spaces.

\ Brief TP
\ Brief \ Brief -x, \ Brief --spaces

Output multiple spaces instead of tabs.

\ Brief .lt Fl l, Fl Fl lines Ar num
\ Brief .TP
\ Brief \ Brief -l, \ Brief --lines \ Brief \ Brief Inumber

Buffer at least \ Brief .lt number

lines in memory. By default, 128 lines are buffered.

\ Brief .lt Fl V, Fl Fl version
\ Brief .TP
\ Brief \ Brief -V, \ Brief --version

Output version information and exit.

\ Brief .TP
\ Brief \ Brief -H, \ Brief --help

Output help and exit.

\ Brief .SH NOTES

The control sequences for carriage motion that \ Brief col
understands and their decimal values are listed in the following table:

\ Brief .PP
\ Brief .RS
\ Brief .PD 0
\ Brief .TP 18
\ Brief .B ESC\ Brief -7

reverse line feed (escape then 7)
\ Brief .TP
\ Brief .B ESC\ Brief -8

half reverse line feed (escape then 8)
\ Brief .TP
\ Brief .B ESC\ Brief -9

half forward line feed (escape then 9)
\ Brief .TP
\ Brief .B backspace

moves back one column (8); ignored in the first column
\ Brief .TP
\ Brief .B newline

forward line feed (10); also does carriage return
All unrecognized control characters and escape sequences are discarded.

```
\( B \) col keeps track of the character set as characters are read and makes sure the character set is correct when they are output.
```

If the input attempts to back up to the last flushed line, \( B \) col will display a warning message.

**SEE ALSO**

```
\( BR \) expand (1),
\( BR \) nroff (1),
\( BR \) tbl (1)
```

**STANDARDS**

The \( B \) col utility conforms to the Single UNIX Specification, Version 2. The \( B \) \( -l \) option is an extension to the standard.

**HISTORY**

A \( B \) col command appeared in Version 6 AT&T UNIX.

**AVAILABILITY**

The \( B \) col command is part of the util-linux package and is available from

```
\( UR \) ftp://\ftp.kernel.org:\pub\linux\:\utils\:\util-linux/
```

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1.221 libnfsidmap 0.25 :19.el7

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1.222 libnl 1.1.4 :3.el7

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**1.226 libpcap 1.5.3 :11.el7**

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1.228 libpng 1.5.13 :7.el7_2

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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.]

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, 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 this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.231 libquadmath 4.8.5 :36.el7_6.2

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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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.

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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.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

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

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

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

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License, as long as you make a written agreement to do so, and the revised version of the license text you use is in substance identical to this License, with the name "GNU General Public License" replaced with "GNU Version X General Public License" (or the name of the license that is used, such as "GNU C Library General Public License").
License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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1.235 libsamplerate 0.1.8 :6.el7

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
  traditional one-character options, and GNU'ish
  --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
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1.242 libsndfile 1.0.25 :10.el7

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Berlin, 28.11.1994
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional; if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.245 libtalloc 2.1.13 :1.el7

1.246 libtar 1.2.11 :29.el7

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1.247 libtasn1 4.10 :1.el7

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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copy of the library already present on the user's computer system,
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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1.251 libtheora 1.1.1 :8.el7

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1.252 libtiff 4.0.3 :27.el7_3
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1.254 libtool 2.4.2 :22.el7_3

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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1.258 libutempter 1.1.6

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
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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 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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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1.269 libXcomposite 0.4.4

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1.270 libXcursor 1.1.15 :1.el7

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1.271 libXdamage 1.1.4 :4.1.el7

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1.272 libXdmcp 1.1.2 :6.el7

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1.273 libXext 1.3.3 :3.el7

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1.274 libXfixes 5.0.3 :1.el7

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1.276 libXft 2.3.2 :2.el7

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1.280 libxklavier 5.4 :7.el7

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 *
 * $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
 */

File: LLM_sp_sha2.c

/*
 * FILE: sha2.h
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$Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
*/
File: LLM_sp_sha2.h

2.

/* utility to create the register check tables
   this includes inlined list.h safe for userspace.

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*
* Authors:
*   Jerome Glisse
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*/
File: comm_lib.h

===============================================================================

3.

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File Name list: aes.h, aes_locl.h

4.
/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -.* -*/
/**
 * rijndael-alg-fst.c
 *
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
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*/

File: aes_core.c

/*===========================================================================
EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when who what, where, why
-------- --- -------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

===========================================================================*/

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

This is an implementation of the AES encryption algorithm (Rijndael)
designed by Joan Daemen and Vincent Rijmen. This version is designed
to provide both fixed and dynamic block and key lengths and can also
run with either big or little endian internal byte order.

NOTE: Input block and key lengths are given in terms of the lengths of
the byte arrays involved, the legal values being 16, 24 and 32.

A. THE CIPHER INTERFACE

byte (an unsigned 8-bit type)
word (an unsigned 32-bit type)
aes_ret:                (a signed 16 bit type for function return values)
aes_good            (value != 0, a good return)
aes_bad             (value == 0, an error return)
enum aes_key:           (encryption direction)
            enc       (set key for encryption)
             dec       (set key for decryption)
            both       (set key for both)
class or struct aes     (structure for context)

C subroutine calls:

aes_ret set_blk(const word block_length, aes *cx)  (variable block size)
aes_ret set_key(const byte key[], const word key_length,
                const enum aes_key direction, aes *cx)
aes_ret encrypt(const byte input_blk[], byte output_blk[], const aes *cx)
aes_ret decrypt(const byte input_blk[], byte output_blk[], const aes *cx)

IMPORTANT NOTE: If you are using this C interface and your compiler does
not set the memory used for objects to zero before use, you will need to
ensure that cx.mode is set to zero before using the C subroutine calls.

C++ aes class subroutines:

aes_ret set_blk(const word block_length)  (variable block size)
aes_ret set_key(const byte key[], const word key_length,
                const aes_key direction)
aes_ret encrypt(const byte input_blk[], byte output_blk[]) const
aesaes_ret decrypt(const byte input_blk[], byte output_blk[]) const

The block length inputs to set_block and set_key are in numbers of
BYTES, not bits. The calls to subroutines must be made in the above
order but multiple calls can be made without repeating earlier calls
if their parameters have not changed. If the cipher block length is
variable but set_blk has not been called before cipher operations a
value of 16 is assumed (that is, the AES block size). In contrast to
earlier versions the block and key length parameters are now checked
for correctness and the encryption and decryption routines check to
ensure that an appropriate key has been set before they are called.

B. BYTE ORDER WITHIN 32 BIT WORDS

The fundamental data processing units in Rijndael are 8-bit bytes. The
input, the output and the key input are all enumerated arrays of bytes
in which bytes are numbered starting at zero and increasing to one less
than the number of bytes in the array in question. When these inputs
and outputs are considered as bit sequences, the n'th byte contains
bits 8n to 8n+7 of the sequence with the lower numbered bit mapped to
the most significant bit within the byte (i.e. that having a numeric
value of 128). However, Rijndael can be implemented more efficiently using 32-bit words to process 4 bytes at a time provided that the order of bytes within words is known. This order is called big-endian if the lowest numbered bytes in words have the highest numeric significance and little-endian if the opposite applies. This code can work in either order irrespective of the native order of the machine on which it runs. The byte order used internally is set by defining INTERNAL_BYTE_ORDER whereas the order for all inputs and outputs is specified by defining EXTERNAL_BYTE_ORDER, the only purpose of the latter being to determine if a byte order change is needed immediately after input and immediately before output to account for the use of a different internal byte order. In almost all situations both of these defines will be set to the native order of the processor on which the code is to run but other settings may sometimes be useful in special circumstances.

#define INTERNAL_BYTE_ORDER LITTLE_ENDIAN
#define EXTERNAL_BYTE_ORDER LITTLE_ENDIAN

C. COMPILATION

To compile AES (Rijndael) for use in C code
a. Exclude the AES_DLL define in aes.h
b. Exclude the AES_IN_CPP define in aes.h

To compile AES (Rijndael) for use in C++ code
a. Exclude the AES_DLL define in aes.h
b. Include the AES_IN_CPP define in aes.h

To compile AES (Rijndael) in C as a Dynamic Link Library
a. Include the AES_DLL define in aes.h
b. Compile the DLL. If using the test files, exclude aes.c from the test build project and compile it with the same defines as used for the DLL (ensure that the DLL path is correct)

D. CONFIGURATION OPTIONS (see also aes.c)

1. define BLOCK_SIZE to set the cipher block size (16, 24 or 32) or leave this undefined for dynamically variable block size (this will result in much slower code).
2. set AES_IN_CPP to use the code from C++ rather than C
3. set AES_DLL if AES (Rijndael) is to be compiled to a DLL
4. set INTERNAL_BYTE_ORDER to one of the above constants to set the internal byte order (the order used within the algorithm code)
5. set EXTERNAL_BYTE_ORDER to one of the above constants to set the byte order used at the external interfaces for the input, output and key byte arrays.

IMPORTANT NOTE: BLOCK_SIZE is in BYTES: 16, 24, 32 or undefined for aes.c
and 16, 20, 24, 28, 32 or undefined for aes++.c. If left undefined a
slower version providing variable block length is compiled

#define BLOCK_SIZE 16

Define AES_IN_CPP if you intend to use the AES C++ class rather than the
C code directly.

#define AES_IN_CPP

Define AES_DLL if you wish to compile the code to produce a Windows DLL

#define AES_DLL

*/
File: aes.h

/*===========================================================================
EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $ $DateTime: 2006/12/11 00:43:21 $ $Author: davidf $
when who what, where, why
-------- --- ----------------------------------------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

===========================================================================
/*lint -e146 -e303 */
/* 146: Assuming a binary constant */
/* 303: String too long (try +macros) */

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.
*/
File: aes_tab.h

============================================================================
#FILE:Conftest.py
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#
#
# The purpose of this module is to define how a check is to be performed.
# Use one of the Check...() functions below.
#
#
# A context class is used that defines functions for carrying out the tests,
# logging and messages. The following methods and members must be present:
#
# context.Display(msg) Function called to print messages that are normally
# displayed for the user. Newlines are explicitly used.
# The text should also be written to the logfile!
#
# context.Log(msg) Function called to write to a log file.
#
# context.BuildProg(text, ext)
# Function called to build a program, using "ext" for the
# file extention. Must return an empty string for
# success, an error message for failure.
# For reliable test results building should be done just
# like an actual program would be build, using the same
# command and arguments (including configure results so
# context.CompileProg(text, ext)
# Function called to compile a program, using "ext" for
# the file extension. Must return an empty string for
# success, an error message for failure.
# For reliable test results compiling should be done just
# like an actual source file would be compiled, using the
# same command and arguments (including configure results
# so far).
#
# context.AppendLIBS(lib_name_list)
# Append "lib_name_list" to the value of LIBS.
# "lib_name_list" is a list of strings.
# Return the value of LIBS before changing it (any type
# can be used, it is passed to SetLIBS() later.)
#
# context.PrependLIBS(lib_name_list)
# Prepend "lib_name_list" to the value of LIBS.
# "lib_name_list" is a list of strings.
# Return the value of LIBS before changing it (any type
# can be used, it is passed to SetLIBS() later.)
#
# context.SetLIBS(value)
# Set LIBS to "value". The type of "value" is what
# AppendLIBS() returned.
# Return the value of LIBS before changing it (any type
# can be used, it is passed to SetLIBS() later.)
#
# context.headerfilename
# Name of file to append configure results to, usually
# "confdefs.h".
# The file must not exist or be empty when starting.
# Empty or None to skip this (some tests will not work!).
#
# context.config_h (may be missing). If present, must be a string, which
# will be filled with the contents of a config_h file.
#
# context.vardict Dictionary holding variables used for the tests and
# stores results from the tests, used for the build
# commands.
# Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
# context.havedict Dictionary holding results from the tests that are to
# be used inside a program.
# Names often start with "HAVE_". These are zero
# (feature not present) or one (feature present). Other
# variables may have any value, e.g., "PERLVERSION" can
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--- zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/
//
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//
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

/*------------------------------------------------------------------------------
--

/* Written by Aaron D. Gifford <me@aarongifford.com>
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 *
 */

/*------------------------------------------------------------------------------
------------------------------------------------------------------------------

/ *
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 * code or tables extracted from it, as desired without restriction.
 *
 * First, the polynomial itself and its table of feedback terms. The
 * polynomial is
 * X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
 *
 * Note that we take it "backwards" and put the highest-order term in
 * the lowest-order bit. The X^32 term is "implied"; the LSB is the
 * X^31 term, etc. The X^0 term (usually shown as "+1") results in
 * the MSB being 1
 *
 * Note that the usual hardware shift register implementation, which
 * is what we're using (we're merely optimizing it by doing eight-bit
 * chunks at a time) shifts bits into the lowest-order term. In our
 * implementation, that means shifting towards the right. Why do we
 * do it this way? Because the calculated CRC must be transmitted in
 * order from highest-order term to lowest-order term. UARTs transmit
 * characters in order from LSB to MSB. By storing the CRC this way
 * we hand it to the UART in the order low-byte to high-byte; the UART
 * sends each low-bit to high-bit; and the result is transmission bit
 * by bit from highest- to lowest-order term without requiring any bit
 * shuffling on our part. Reception works similarly
 *
 * The feedback terms table consists of 256, 32-bit entries. Notes
 *
 * The table can be generated at runtime if desired; code to do so
 * is shown later. It might not be obvious, but the feedback
 * terms simply represent the results of eight shift/xor opera
 * tions for all combinations of data and CRC register values
 *
 * The values must be right-shifted by eight bits by the "updcr
logic; the shift must be unsigned (bring in zeroes). On some
hardware you could probably optimize the shift in assembler by
using byte-swap instructions

polynomial $edb88320

The AES algorithm Rijndael implemented for block and key sizes of 128,
192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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for some ideas that are used in this implementation.

Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

.hash_32 - 32 bit Fowler/Noll/Vo hash code

Fowler/Noll/Vo hash

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.sha1.c

Originally written by Steve Reid <steve@edmweb.com>

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*/

-----------------------------------------------------------------------------
/*
 * AES-based functions
 *
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC

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-----------------------------------------------------------------------------
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 * SHA1 hash implementation and interface functions
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agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin -- 9.48 Hermes I

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The Linux driver architecture was based on two modules, the MSF (Module specific functions) and the HCF (Hardware Control Functions). Included in the HCF is run-time firmware (binary format) which is downloaded into the RAM of the Hermes 1/2/2.5 WMAC.

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Fast discrete Fourier and cosine transforms and inverses
author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier routines in this file are hereby released to the public domain as well. The C routines here produce output exactly equivalent to the original fortran routines. Of particular interest are the facts that (like the original fortran), these routines can work on arbitrary length vectors that need not be powers of two in length. */
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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

---------------------------------------------------------------------------
WIS GO7007SB Public Linux Driver
---------------------------------------------------------------------------

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS
This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

- `CONFIG_HOTPLUG` - Support for hot-pluggable devices
- `CONFIG_MODULES` - Enable loadable module support
- `CONFIG_KMOD` - Automatic kernel module loading
- `CONFIG_FW_LOADER` - Hotplug firmware loading support
- `CONFIG_I2C` - I2C support
- `CONFIG_VIDEO_DEV` - Video For Linux
- `CONFIG_SOUND` - Sound card support
- `CONFIG_SND` - Advanced Linux Sound Architecture
- `CONFIG_USB` - Support for Host-side USB
- `CONFIG_USBDEVICEFS` - USB device filesystem
- `CONFIG_USB_EHCI_HCD` - EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

- `CONFIG_SND_MIXER_OSS` - OSS Mixer API
- `CONFIG_SND_PCM_OSS` - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.
If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

### 3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>

If the "force_band" parameter is specified, the driver will ignore any TV
band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>A2</td>
<td>2</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>NICAM</td>
<td>3</td>
</tr>
<tr>
<td>PAL I</td>
<td>Mono (default)</td>
<td>4</td>
</tr>
<tr>
<td>PAL I</td>
<td>NICAM</td>
<td>5</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>Mono (default)</td>
<td>6</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (1)</td>
<td>7</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (2)</td>
<td>8</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (3)</td>
<td>9</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>NICAM</td>
<td>10</td>
</tr>
<tr>
<td>SECAM L</td>
<td>Mono (default)</td>
<td>11</td>
</tr>
<tr>
<td>SECAM L</td>
<td>NICAM</td>
<td>12</td>
</tr>
</tbody>
</table>

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER
Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

$ apps/gorecord -duration 60 capture.avi

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when
the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, theEINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32 gop_size
   The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

__u32 max_b_frames
   The maximum number of sequential bidirectionally-predicted frames.

   (B-frames are not yet supported.)

enum go7007_aspect_ratio
   The aspect ratio to be encoded in the meta-data of the compressed format.

Choices are:
   GO7007_ASPECT_RATIO_1_1
   GO7007_ASPECT_RATIO_4_3_NTSC
   GO7007_ASPECT_RATIO_4_3_PAL
   GO7007_ASPECT_RATIO_16_9_NTSC
   GO7007_ASPECT_RATIO_16_9_PAL
Flags in struct go7007_comp_params:

GO7007_COMP_CLOSED_GOP       Only produce self-contained GOPs, used
to produce streams appropriate for
random seeking.

GO7007_COMP_OMIT_SEQ_HEADER  Omit the stream sequence header.

GO7007_IOC_S_MPEG_PARAMS, GO7007_IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when
the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007_IOC_G_MPEG_PARAMS ioctl
with a pointer to a struct go7007_mpeg_params. If the driver is not
set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct
go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a
pointer to this structure. The driver will return the current
parameters with any necessary changes to conform to the limitations of
the hardware or selected MPEG mode. Any or all fields can be set to
zero to request a reasonable default value. If the driver is not set
to MPEG format, the EINVAL error code will be returned. When I/O is in
progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard
mpeg_video_standard        The MPEG video standard in which to
compress the video.

Choices are:
GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4

__u32                        Bit-wise OR of control flags (below)
flags

__u32                        The profile and level indication to be
pali stored in the sequence header. This
is only used as an indicator to the
decoder, and does not affect the MPEG features used in the video stream.
Not valid for MPEG1.

Choices for MPEG2 are:

GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:

GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1
GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE  Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER  Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctl's are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The
VIDIOC_S_JPEGCOMP ioctl is not supported.

-----------------------------------------------
Installing the WIS PCI Voyager Driver
-----------------------------------------------

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr’s website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

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RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER
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Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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1.299 lm_sensors 3.4.0

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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

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

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

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

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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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1.308 m17n-lib 1.6.4 :14.el7

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

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

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

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

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* GSS-API Programming Guide
* Part No: 816-1331-11
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
*/
*/ md5.h and md5.c are derived from RFC 1321:

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 * hmac.c is derived from:

Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
Category: Informational    M. Bellare
    UCSD
    R. Canetti
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February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code
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1.315 man-pages 3.53 :5.el7

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1.316 man-pages-overrides 7.6.2 :1.el7

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Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
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Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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--echo '#---------------------BS_STVARS_040_02----------------------#'
# Check if Value can set
# ############################################################################

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_03----------------------#'
# Check if the value in GLOBAL Table matches value in variable#
# ############################################################################

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_04----------------------#'
#  Check if accessing variable with and without GLOBAL point to same variable  #
# ############################################################################

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_05----------------------#'
# Check if license can be accessed with and without @@ sign     #
# ############################################################################

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected
SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

'#---------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_02----------------------#'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_03----------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license)
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1

SELECT COUNT(@@license);
COUNT(@@license)
1

SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1

SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'
SHOW CONTRIBUTORS;
SHOW CONTRIBUTORS;
Name|Location|Comment
Ronald Bradford|Brisbane, Australia|EFF contribution for UC2006 Auction
Sheeri Kritzer|Boston, Mass. USA|EFF contribution for UC2006 Auction
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Warnings:
Warning1681'SHOW CONTRIBUTORS' is deprecated and will be removed in a future release.

== MariaDB ==

The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

MariaDB can be downloaded from http://downloads.askmonty.org/mariadb/

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

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

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

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

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

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

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

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

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

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

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
MySQL is distributed under GPL v2, but there are some licensing exceptions
that allow the client libraries to be linked with a non-GPL application,
so long as the application is under a license approved by Oracle.
For details see

http://www.mysql.com/about/legal/licensing/foss-exception/

1.318 mcelog 144 :9.94d853b2ea81.el7
1.319 mdadm 4.1 :rc1_2.el7

1.319.1 Available under license:

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Version 2, June 1991

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announcement including an appropriate copyright notice and a
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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

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

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

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.320 mesa 18.0.5 :4.el7_6

1.320.1 Available under license:

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> >
> > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!
> 
> Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.
Instead of clause 2, in the case of the Mesa project, you have to name
the technique Jimenez's MLAA in the config options of Mesa. We did that
just to allow them to solve license issues. This exception should be for
the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of
license complications. Hope current one is good for Fedora, if not
please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing
Fedora (a popular distribution of Linux) for license compliance and I
came across your MLAA code in Mesa.
The license says:

* 2. Redistributions in binary form must reproduce the following statement:
   *
   * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
     Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
   *
   * Only for use in the Mesa project, this point 2 is filled by naming the
     technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
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#
# Authors:
#    Ian Romanick <idr@us.ibm.com>

bsd_license_template = """"%s
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WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE."""
/* Legal characters in GLSL are:
 * * Identifier characters:
 * *   Letters a-z
 * *   Letters A-Z
 * *   Underscore
 * *   Numbers 0-9
 * *
 * * Punctuation:
 * *   Period, plus, dash, slash, asterisk, percent, angled brackets,
 * *   square brackets, parentheses, braces, caret, vertical bar,
 * *   ampersand, tilde, equals, exclamation point, colon, semicolon,
* comma, and question mark

* Special:

* Number sign (as used in preprocessor)

* Backslash just before newline as line continuation

* White space:

* Space, horizontal tab, vertical tab, form feed, carriage-return, and line-feed.

* [GLSL Language Specification 4.30.6, section 3.1]

* In this file, we test each of these in turn as follows:

* Identifier characters: All pass through unchanged

* Punctuation: All pass through unchanged

* Special: Empty directive replaced with blank line
  
* Line continuation merges two lines, then a blank line

* Whitespace: 4 horizontal space characters each replaced with space

* 2 newline characters each replaced with a newline

*/

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
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Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
Mesa is a 3-D graphics library with an API which is very similar to that of OpenGL.* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from Silicon Graphics, Inc. (SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

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See below for a list of Mesa's main components and the license for each.

The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.

The default Mesa license is as follows:

```
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```

Attention, Contributors

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---

Mesa Component Licenses

<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>
Main Mesa code    src/mesa/ MIT
Device drivers    src/mesa/drivers/* MIT, generally
Gallium code      src/gallium/ MIT
Ext headers       include/GL/glext.h Khronos
                  include/GL/glxext.h
GLX client code   src/glx/ SGI Free Software License B
C11 thread        include/c11/threads*.h Boost (permissive)
emulation
</pre>

<p>
In general, consult the source files for license terms.
</p>
</div>
</body>
</html>

1.321 mesa-libGLU 9.0.0 :4.el7
1.321.1 Available under license:
   From RPM File Metadata:MIT

1.322 mesa-private-llvm 3.9.1 :3.el7
1.322.1 Available under license:

XZ Utils Licensing
===================

Different licenses apply to different files in this package. Here
is a rough summary of which licenses apply to which parts of this
package (but check the individual files to be sure!):

- liblzma is in the public domain.

- xz, xzdec, and lzmdec command line tools are in the public
domain unless GNU getopt_long had to be compiled and linked
in from the lib directory. The getopt_long code is under
GNU LGPLv2.1+. 
- The scripts to grep, diff, and view compressed files have been adapted from gzip. These scripts and their documentation are under GNU GPLv2+.

- All the documentation in the doc directory and most of the XZ Utils specific documentation files in other directories are in the public domain.

- Translated messages are in the public domain.

- The build system contains public domain files, and files that are under GNU GPLv2+ or GNU GPLv3+. None of these files end up in the binaries being built.

- Test files and test code in the tests directory, and debugging utilities in the debug directory are in the public domain.

- The extra directory may contain public domain files, and files that are under various free software licenses.

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If you have questions, don't hesitate to ask the author(s) for more
'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.324 microcode_ctl 2.1 :47.2.el7_6
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1.325 minicom 2.6.2 :5.el7

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

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library. If this is what you want to do, use the GNU Lesser General
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```c
# canonicalize-lgpl.m4 serial 4
dnl Copyright (C) 2003, 2006-2007 Free Software Foundation, Inc.
dnl This file is free software; the Free Software Foundation
dnl gives unlimited permission to copy and/or distribute it,
dnl with or without modifications, as long as this notice is preserved.

AC_DEFUN([gl_CANONICALIZE_LGPL],
|
  dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
if test $ac_cv_func_canonicalize_file_name = no; then
  AC_LIBOBJ(canonicalize-lgpl)
  ACDEFINE([realpath], [rpl_realpath],
    [Define to a replacement function name for realpath().])
gl_PREREQ_CANONICALIZE_LGPL
fi
)

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATOR],
|
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
gl_PREREQ_CANONICALIZE_LGPL
)

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
|
  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
AC_CHECK_FUNCS_ONCE(getcwd readlink)
)
```

**1.327 mobile-broadband-provider-info**

**1.20170310 :1.el7**
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Version 2.1, February 1999

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That's all there is to it!

#ifndef OSName
#define OSName 4.3bsd
#endif
XCOMM operating system:  OSName
#ifndef OSMajorVersion
#define OSMajorVersion 4
#endif
#ifndef OSMinorVersion
#define OSMinorVersion 3
#endif
#endif

#define BootstrapCFlags -DNOSTDHDRS
#define StandardDefines -DNOSTDHDRS -DCSRG_BASED
#define HasVoidSignalReturn NO
#define HasBsearch NO
#define DirFailPrefix -
#define AvoidNullMakeCommandYES

#define BuildServer NO

#if VaxArchitecture
#define UnalignedReferencesAllowed YES /* if arbitrary deref is okay */
#endif

#if OSMajorVersion >= 4 && OSMajorVersion >= 3
#define SetTtyGroup YES
#endif

1.330 mozilla-filesystem 1.9 :11.el7

1.331 mpfr 3.1.1 :4.el7

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# Note: if paragraphs are reformatted, this may need to be updated.
lGPL="`sed -n '/version [0-9.]* or any later version/ {""`

s/.*version //
s/ or.*//
p
q
}
do
for file in $srctests
do
y=""
case $file in
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    # This file doesn't have a copyright notice, but isn't distributed.
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You may convey a covered work in object code form under the terms 
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   (including a physical distribution medium), accompanied by the 
   Corresponding Source fixed on a durable physical medium 
customarily used for software interchange.

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

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

d) Convey the object code by offering access from a designated 
   place (gratis or for a charge), and offer equivalent access to the 
   Corresponding Source in the same way through the same place at no 
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   clear directions next to the object code saying where to find the 
   Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

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 * *
 */

/*
 * nm-online.c - Are we online?
 * *
 * Return values:
* 0: already online or connection established within given timeout
* 1: offline or not online within given timeout
* 2: unspecified error
*
* Robert Love <rml@novell.com>
*/

#include "nm-default.h"

#include <stdio.h>
#include <stdlib.h>
#include <getopt.h>
#include <locale.h>

#define PROGRESS_STEPS 15
#define EXIT_FAILURE_OFFLINE     1
#define EXIT_FAILURE_ERROR       2
#define EXIT_FAILURE_LIBNM_BUG   42
#define EXIT_FAILURE_UNSPECIFIED 43

typedef struct
{
    GMainLoop *loop;
    NMClient *client;
    GCancellable *client_new_cancellable;
    guint client_new_timeout_id;
    guint handle_timeout_id;
    gulong client_notify_id;
    gboolean exit_no_nm;
    gboolean wait_startup;
    gboolean quiet;
    gint64 start_timestamp_ms;
    gint64 end_timestamp_ms;
    gint64 progress_step_duration;
    int retval;
} OnlineData;

static gint64
  _now_ms (void)
{
    return g_get_monotonic_time () / (G_USEC_PER_SEC / 1000);
}

static void
  _return (OnlineData *data, int retval)
{
    nm_assert (data);
}
nm_assert (data->retval == EXIT_FAILURE_UNSPECIFIED);

data->retval = retval;
nm_clear_g_signal_handler (data->client, &data->client_notify_id);
g_main_loop_quit (data->loop);
}

static void
_print_progress (int progress_next_step_i, gint64 remaining_ms, int success)
{
int i, j;

j = progress_next_step_i < 0 ? PROGRESS_STEPS : progress_next_step_i;

_g_print ("\r%s", _("Connecting");
for (i = 0; i < PROGRESS_STEPS; i++)
putchar (i < j ? '.' : ' ');
_g_print (" %4lds", (long) (MAX (0, remaining_ms + 999) / 1000));
if (success >= 0)
g_print (" [%sline]n", success ? "on" : "off");
fflush (stdout);
}

static gboolean
quit_if_connected (OnlineData *data)
{
NMState state;

state = nm_client_get_state (data->client);
if (!nm_client_get_nm_running (data->client)) {
if (data->exit_no_nm) {
__return (data, EXIT_FAILURE_OFFLINE);
return TRUE;
}
}
else if (data->wait_startup) {
if (!nm_client_get_startup (data->client)) {
__return (data, EXIT_SUCCESS);
return TRUE;
}
else {
if (state == NM_STATE_CONNECTED_LOCAL
    || state == NM_STATE_CONNECTED_SITE
    || state == NM_STATE_CONNECTED_GLOBAL) {
__return (data, EXIT_SUCCESS);
return TRUE;
         }
}
}
if (data->exit_no_nm && (state != NM_STATE_CONNECTING)) {


_return (data, EXIT_FAILURE_OFFLINE);
return TRUE;
}

return FALSE;
}

static void
client_properties_changed (GObject *object,
                   GParamSpec *pspec,
                   gpointer user_data)
{
quit_if_connected (user_data);
}

static gboolean
handle_timeout (gpointer user_data)
{
    OnlineData *data = user_data;
    const gint64 now = _now_ms ();
    gint64 remaining_ms = data->end_timestamp_ms - now;
    const gint64 elapsed_ms = now - data->start_timestamp_ms;
    int progress_next_step_i = 0;
    data->handle_timeout_id = 0;

    if (remaining_ms <= 3) {
_return (data, EXIT_FAILURE_OFFLINE);
return G_SOURCE_REMOVE;
    }

    if (!data->quiet) {
        gint64 rem;

        /* calculate the next step (not the current): floor()+1 */
        progress_next_step_i = NM_MIN ((elapsed_ms / data->progress_step_duration) + 1, PROGRESS_STEPS);
_println_progress (progress_next_step_i, remaining_ms, -1);

        /* synchronize the timeout with the ticking of the seconds. */
        rem = remaining_ms % 1000;
        if (rem <= 3)
            rem = rem + G_USEC_PER_SEC;
        /* add small offset to awake a bit after the second ticks */
        remaining_ms = NM_MIN (remaining_ms, rem + 10);

        /* synchronize the timeout with the steps of the progress bar. */
        rem = (progress_next_step_i * data->progress_step_duration) - elapsed_ms;
        if (rem <= 3)
rem = rem + data->progress_step_duration;
/* add small offset to awake a bit after the second ticks */
remaining_ms = NM_MIN (remaining_ms, rem + 10);
}

data->handle_timeout_id = g_timeout_add (remaining_ms, handle_timeout, data);
return G_SOURCE_REMOVE;
}

static gboolean
got_client_timeout (gpointer user_data)
{
OnlineData *data = user_data;

data->client_new_timeout_id = 0;
data->quiet = TRUE;
g_printerr (_("Error: timeout creating NMClient object\n"));
_return (data, EXIT_FAILURE_LIBNM_BUG);
return G_SOURCE_REMOVE;
}

static gboolean
got_client (GObject *source_object, GAsyncResult *res, gpointer user_data)
{
OnlineData *data = user_data;
gs_free_error GError *error = NULL;
NMClient *client;

nm_clear_g_source (&data->client_new_timeout_id);
g_clear_object (&data->client_new_cancellable);

client = nm_client_new_finish (res, &error);
if (!client) {
if (g_error_matches (error, G_IO_ERROR, G_IO_ERROR_CANCELLED))
return;
data->quiet = TRUE;
g_printerr (_("Error: Could not create NMClient object: %s\n"),
error->message);
_return (data, EXIT_FAILURE_ERROR);
return;
}

data->client = client;

if (quit_if_connected (data))
return;

data->client_notify_id = g_signal_connect (data->client, "notify",
G_CALLBACK (client_properties_changed), data);
data->handle_timeout_id = g_timeout_add (data->quiet ? NM_MAX (0, data->end_timestamp_ms - _now_ms ()) : 0, handle_timeout, data);
}

int
main (int argc, char *argv[])
{
    OnlineData data = {
        .retval = EXIT_FAILURE_UNSPECIFIED,
    };
    int t_secs = 30;
    GOptionContext *opt_ctx = NULL;
    gboolean success;
    GOptionEntry options[] = {
        { "timeout", 't', 0, G_OPTION_ARG_INT, &t_secs, N_("Time to wait for a connection, in seconds (without the option, default value is 30)") },
        { "exit", 'x', 0, G_OPTION_ARG_NONE, &data.exit_no_nm, N_("Exit immediately if NetworkManager is not running or connecting"), NULL },
        { "quiet", 'q', 0, G_OPTION_ARG_NONE, &data.quiet, N_("Don't print anything"), NULL },
        { "wait-for-startup", 's', 0, G_OPTION_ARG_NONE, &data.wait_startup, N_("Wait for NetworkManager startup instead of a connection"), NULL },
    };

    /* Set locale to be able to use environment variables */
    setlocale (LC_ALL, "");

    bindtextdomain (GETTEXT_PACKAGE, NMLOCALEDIR);
    bind_textdomain_codeset (GETTEXT_PACKAGE, "UTF-8");
    textdomain (GETTEXT_PACKAGE);

    data.start_timestamp_ms = _now_ms ();

    opt_ctx = g_option_context_new (NULL);
    g_option_context_set_translation_domain (opt_ctx, GETTEXT_PACKAGE);
    g_option_context_set_ignore_unknown_options (opt_ctx, FALSE);
    g_option_context_set_help_enabled (opt_ctx, TRUE);
    g_option_context_add_main_entries (opt_ctx, options, NULL);

    g_option_context_set_summary (opt_ctx, ___("Waits for NetworkManager to finish activating startup network connections.")));    success = g_option_context_parse (opt_ctx, &argc, &argv, NULL);
    g_option_context_free (opt_ctx);

    if (!success) {
        g_printerr ("%s: %s\n", argv[0],

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On all platforms, Nmap is normally linked with:
- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  http://www.tcpdump.org/
- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  http://www.lua.org/
- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  http://www.openssl.org/
- LIBLINEAR. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

On Windows only, Nmap uses:
- WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.
Zenmap and Ndiff require:
- Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
- GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.
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- Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.
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- Expat: XML parser library.
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- PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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Written by: Philip Hazel
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Julian Seward, jseward@bzip.org
bzip2/libbzzip2 version 1.0.6 of 6 September 2010

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

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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<signature of Ty Coon>, 1 April 1989
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/* -*- Mode: Text -*- */

copyright = {
date = "1970-2011";
owner = "David L. Mills and/or others";
eaddr = "http://bugs.ntp.org, bugs@ntp.org";
type = note;
text = "<<- _EndOfDoc_
see html/copyright.html"
long-opts;
config-header = config.h;
environrc;
no-misuse-usage;

version = `eval VERSION=`\$\( sed -e 's/.*,\(\([^/\-]*\)\)/\1/ ' -e 's/\([^/\-]*\)/\1/ ' < ../version.m4` 
\[ -z "$\{VERSION\}" \] \&\& echo "Cannot determine VERSION" \&\& kill -TERM \$\(AG\_pid\) 
echo "$\{VERSION\}";

version-value = "/\* Don't use -v as a shortcut for --version */

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Version 3, 29 June 2007

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1.352 numpy 1.7.1 :13.el7

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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;
}

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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 POLLRD NORM 0x0040
#define POLLNORM POLLRD NORM
#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 potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

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

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* Optimised ANSI C code for the Rijndael cipher (now AES)
*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* Jamie Beverley
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT
* chrystn@fsfe.org
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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;

Open Source Used In Foundation RHEL7.6
typedef unsigned 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 POLLNORMPOLLRD NORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

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

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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 */
#ifndef _BSD_WAITPID_H
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#ifndef HAVE_WAITPID
/* Clean out any potential issues */
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#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 */
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#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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b) snprintf replacement

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--------------------------------------------------------------------------/
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 *queue;
/* 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) /* 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)
    status != SSH2_FX_FAILURE)
    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[-P blacklisted_requests]\n" - 
"[-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: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 || permforcemode > 0777 ||
+            *cp != '\0' || (permforcemode == 0 &&
+              errno != 0))
+            fatal("Invalid file mode \"%s\", optarg);
+            break;
+      case 'h':
 default:
        sftp_server_usage();

1.359 openssl-libs 1.0.2k :16.el7_6.1
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<one line to give the program's name and a brief idea of what it does.>
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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that is part of the Library, the object code for the work may be a
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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1.368 papi 5.2.0 :26.el7

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

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

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

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

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

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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attach them to the start of each source file to most effectively convey
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<one line to give the program's name and a brief idea of what it does.>
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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
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program.

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

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

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

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---

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

---------------------------------------------------------------

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

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#----------------------------------------#
# Create test distribution
#----------------------------------------#
{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'perl',
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'perl',
}
"license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
  "META license URL is correct" );

}

{
my $dist = DistGen->new(
  name => 'Simple::Name',
  version => '0.01',
  license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
  "license 'VaporWare' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
  "META license URL is correct" );

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
From f548561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3

---

hv.c          |  6 ++++++
sv.c          |  7 ++++-
t/op/svleak.t | 22 +++++++++++++++++++++-
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
const I32 riter = HvRITER_get(ohv);
+ENTER;
+SAVEFREESV(hv);
 +
while (hv_max && hv_max + 1 >= hv_fill * 2)
    hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
} HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
}

hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;

diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
return NULL;
}
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
+    new_SV(sv);
- /* SV_GMAGIC is the default for sv_setsv() */
-    SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
-    sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+    sv_setsv_flags(sv, old, SV_NOSTEAL);
    return sv;
}

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
 or skip_all("XS::APItest not available");
 }

-plan tests => 23;
+plan tests => 24;

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
     each %$h;
     undef $h;
 }, 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+    sub TIEHASH { bless [] }
+    sub STORE { $_->[0][0]{$_[1]} = $_[2] }
+    sub FETCH { die if $explosive; $_[0][0]{$_[1]} }
+    sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }
+    sub NEXTKEY  { each %{$_[0][0]} }
+    }
+leak(2,!!$Config{mad}, sub {
+    eval q`
+    BEGIN {
+    $hhtie::explosive = 0;
+    tie %^H, hhtie;
+    $^H{foo} = bar;
+    $hhtie::explosive = 1;
+    ```
+    }
1.377 perl-Carp 1.26 :244.el7

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Julian Seward, jsward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
1.378 perl-CGI 3.63 :4.el7

1.379 perl-constant 1.27 :2.el7

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

------------------------------------------------------------------------
1.381 perl-Digest-HMAC 1.03 :5.el7

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

--------------------------------------------------------------------------
1.382 perl-Digest-SHA1 2.13 :9.el7

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

--------------------------------------------------------------------------
1.383 perl-Encode 2.51 :7.el7

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1.384 perl-Exporter 5.68 :3.el7

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Julian Seward, jseward@bzip.org
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1.386 perl-ExtUtils-ParseXS 3.18 :3.el7

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

-----------------------------------------------------------------------------
1.387 perl-File-Path 2.09 :2.el7

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

--------------------------------------------------------------------------
1.388 perl-File-Temp 0.23.01 :3.el7

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

--------------------------------------------------------------------------
1.390 perl-Getopt-Long 2.40 :3.el7

1.391 perl-HTTP-Tiny 0.033 :3.el7

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1.392 perl-Module-Pluggable 4.8 :3.el7

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

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1.393 perl-parent 0.225 :244.el7

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

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1.397 perl-Pod-Usage 1.63 :3.el7

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

1.398 perl-podlators 2.5.1 :3.el7

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

--------------------------------------------------------------------------

1.402 perl-Test-Harness 3.28 :3.el7

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

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1.403 perl-Test-Simple 0.98 :243.el7

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

1.404 perl-Text-ParseWords 3.29 :4.el7

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

--------------------------------------------------------------------------

1.406 perl-threads-shared 1.43 :6.el7

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

1.407 perl-Time-HiRes 1.9725 :3.el7

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

1.408 perl-Time-Local 1.2300 :2.el7
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.411 perl-XML-LibXML 2.0018 :5.el7

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

--------------------------------------------------------------------------

1.414 pexpect 2.3 :11.el7

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1.415 phonon-backend-gstreamer 4.6.3 :3.el7

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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.
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For an executable, the required form of the "work that uses the
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1.437 pulseaudio 10.0 :5.el7

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Version 2.1, February 1999

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
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We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
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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.

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

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1.444 python 2.7.5 :77.el7_6
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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*******************
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*******************

History of the software

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

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| 0.9.0 thru 1.2 | n/a          | 1991-1995 | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001      | CNRI       | no              |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes             |
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| 2.3.4 | 2.3.3 | 2004 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.3.5 | 2.3.4 | 2005 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.4   | 2.3   | 2004 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.4.1 | 2.4   | 2005 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.4.2 | 2.4.1 | 2005 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.4.3 | 2.4.2 | 2006 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.4.4 | 2.4.3 | 2006 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.5   | 2.4   | 2006 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.5.1 | 2.5   | 2007 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.5.2 | 2.5.1 | 2008 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.5.3 | 2.5.2 | 2008 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.6   | 2.5   | 2008 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.6.1 | 2.6   | 2008 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.6.2 | 2.6.1 | 2009 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.6.3 | 2.6.2 | 2009 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
| 2.6.4 | 2.6.3 | 2010 | PSF | yes | +----------------+--------------+-----------+------------+-----------------+
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----------------
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Porschke <porschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

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

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

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

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1.447 python-beaker 1.5.4 :10.el7

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1.448 python-chardet 2.2.1 :1.el7_1

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

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

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

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

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1.451 python-dmidecode 3.12.2 :3.el7

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DMIDecode Python Extension Module shadows the DMIDecode utility

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=========

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

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1.453 python-gudev 147.2
1.453.1 Available under license :

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Version 3, 29 June 2007

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1.454 python-iniparse 0.4 :9.el7
1.454.1 Available under license :
A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases.

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1.455 python-lxml 3.2.1 :4.el7

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1.456 python-mako 0.8.1 :2.el7

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1.457 python-markupsafe 0.11 :10.el7

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1.458 python-matplotlib 1.2.0 :15.el7
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# CREATOR: The GIMP's PNM Filter Version 1.0

16 16

255


Comment Creation Date: Tue Mar 20 12:15:44 1990

Comment UniqueID 28416

Comment VMusage 30487 37379

fontName Times-Roman

fullName Times Roman

familyName Times

weight Roman

ItalicAngle 0

isFixedPitch false

FontBox -168 -218 1000 898

UnderlinePosition -100

UnderlineThickness 50

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EncodingScheme AdobeStandardEncoding

CapHeight 662

XHeight 450

Ascender 683

Descender -217

StartCharMetrics 228

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 130 -9 238 676 ;
C 34 ; WX 408 ; N quotedbl ; B 77 431 331 676 ;
C 35 ; WX 500 ; N numbersign ; B 5 0 496 662 ;
C 36 ; WX 500 ; N dollar ; B 44 -87 457 727 ;
C 37 ; WX 833 ; N percent ; B 61 -13 772 676 ;
C 38 ; WX 778 ; N ampersand ; B 42 -13 750 676 ;
C 39 ; WX 333 ; N quoteright ; B 79 433 218 676 ;
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 KPXB period 0
 KPXB comma 0
 KPXB U -10
 KPXB A -35

 KPXD period 0
 KPXD comma 0
 KPXD Y -55
 KPXD W -30
 KPXD V -40
 KPXD A -40

 KPXF r 0
 KPXF period -80
 KPXF o -15
 KPXF i 0
 KPXF e 0
 KPXF comma -80
 KPXF a -15
 KPXF A -74

 KPXG period 0
 KPXG comma 0

 KPXJ u 0
 KPXJ period 0
 KPXJ o 0
 KPXJ e 0
 KPXJ comma 0
 KPXJ a 0
 KPXJ A -60

 KPXK y -25
 KPXK u -15
 KPXK o -35
 KPXK e -25
 KPXK O -30

 KPXL y -55
 KPXL quoteright -92
 KPXL quotedblright 0
 KPXL Y -100
 KPXL W -74
 KPXL V -100
 KPXL T -92

 KPXN period 0
KPX N comma 0
KPX N A -35

KPX O period 0
KPX O comma 0
KPX O Y -50
KPX O X -40
KPX O W -35
KPX O V -50
KPX O T -40
KPX O A -35

KPX P period -111
KPX P o 0
KPX P e 0
KPX P comma -111
KPX P a -15
KPX P A -92

KPX Q period 0
KPX Q comma 0
KPX Q U -10

KPX R Y -65
KPX R W -55
KPX R V -80
KPX R U -40
KPX R T -60
KPX R O -40

KPX S period 0
KPX S comma 0

KPX T y -80
KPX T w -80
KPX T u -45
KPX T semicolon -55
KPX T r -35
KPX T period -74
KPX T o -80
KPX T i -35
KPX T hyphen -92
KPX T h 0
KPX T e -70
KPX T comma -74
KPX T colon -50
KPX T a -80
KPX T O -18
KPX T A -93

KPX U period 0
KPX U comma 0
KPX U A -40

KPX V u -75
KPX V semicolon -74
KPX V period -129
KPX V o -129
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KPX V e -111
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KPX V a -111
KPX V O -40
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KPX W y -73
KPX W u -50
KPX W semicolon -37
KPX W period -92
KPX W o -80
KPX W i -40
KPX W hyphen -65
KPX W h 0
KPX W e -80
KPX W comma -92
KPX W colon -37
KPX W a -80
KPX W O -10
KPX W A -120

KPX Y u -111
KPX Y semicolon -92
KPX Y period -129
KPX Y o -110
KPX Y i -55
KPX Y hyphen -111
KPX Y e -100
KPX Y comma -129
KPX Y colon -92
KPX Y a -100
KPX Y O -30
KPX Y A -120
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KPX space V -50
KPX space T -18
KPX space A -55

KPX v period -65
KPX v o -20
KPX v e -15
KPX v comma -65
KPX v a -25

KPX w period -65
KPX w o -10
KPX w h 0
KPX w e 0
KPX w comma -65
KPX w a -10

KPX x e -15

KPX y period -65
KPX y o 0
KPX y e 0
KPX y comma -65
KPX y a 0

KPX z o 0
KPX z e 0

EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 212 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 212 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 212 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 212 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 185 187 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 212 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 167 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 212 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 212 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 212 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 212 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 0 212 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 0 212 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 0 212 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 212 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 195 212 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 195 212 ;
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Open Source Used In Foundation RHEL7.6

5309
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KPX x e -10

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KPX Q comma 16
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KPX x e -6
KPX x d -6
KPX x c -6

KPX y quoteright -10
KPX y quotedblright -10
KPX y q -10
KPX y period -56
KPX y d -10
KPX y comma -56

KPX z quoteright -40
KPX z quotedblright -40
KPX z o -6
KPX z e -6
KPX z d -6
KPX z c -6
EndKernPairs
EndKernData
EndFontMetrics
StartFontMetrics 2.0
KPX D A -40
KPX F period -100
KPX F comma -100
KPX F a -20
KPX F A -80
KPX J u -20
KPX J period -20
KPX J comma -20
KPX J A -20
KPX K y -40
KPX K u -30
KPX K o -35
KPX K e -15
KPX K O -30
KPX L y -30
KPX L quotedblright -140
KPX L quotedblright -140
KPX L Y -120
KPX L W -80
KPX L V -110
KPX L T -90
KPX O period -40
KPX O comma -40
KPX O Y -70
KPX O X -50
KPX O W -50
KPX O V -50
KPX O T -40
KPX O A -50
KPX P period -120
KPX P o -40
KPX P e -30
KPX P comma -120
KPX P a -30
KPX P A -100
KPX Q period 20
KPX Q comma 20
KPX Q U -10
KPX R Y -50
KPX R W -40
Open Source Used In Foundation RHEL7.6

5395
Open Source Used In Foundation RHEL7.6
KPX F period -160
KPX F e -20
KPX F comma -180
KPX F a -20
KPX F A -75

KPX G period -20
KPX G comma -20
KPX G Y -20

KPX J period -15
KPX J a -20
KPX J A -30

KPX K o -15
KPX K e -20
KPX K O -20

KPX L y -23
KPX L quoteright -130
KPX L quotedblright -130
KPX L Y -91
KPX L W -67
KPX L V -113
KPX L T -46

KPX O period -30
KPX O comma -30
KPX O Y -30
KPX O X -30
KPX O W -20
KPX O V -60
KPX O T -30
KPX O A -60

KPX P period -300
KPX P o -60
KPX P e -20
KPX P comma -280
KPX P a -20
KPX P A -114

KPX Q comma 20

KPX R Y -10
KPX R W 10
KPX R V -10
KPX R T 6
KPX r k 20
KPX r i 20
KPX r hyphen -60
KPX r g -15
KPX r e -4
KPX r d -6
KPX r comma -75
KPX r c -20
KPX r a -20

KPX s period 20
KPX s comma 20

KPX space quotelight -110
KPX space quotedblleft -110
KPX space Y -60
KPX space W -25
KPX space V -50
KPX space T -25
KPX space A -20

KPX v period -130
KPX v o -30
KPX v e -20
KPX v comma -100
KPX v a -30

KPX w period -100
KPX w o -30
KPX w h 15
KPX w e -20
KPX w comma -90
KPX w a -30

KPX y period -125
KPX y o -30
KPX y e -20
KPX y comma -110
KPX y a -30
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EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 183 163 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 119 163 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 186 163 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 181 163 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 204 148 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 151 163 ;
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KPX ff quoteright 77.778
KPX ff question 77.778
KPX ff exclamation 77.778
KPX ff parenright 77.778
KPX ff bracketright 77.778
KPX suppress l -277.778
KPX suppress L -319.444
KPX quoteright question 111.111
KPX quoteright exclamation 111.111
KPX A t -27.778
KPX A C -27.778
KPX A O -27.778
KPX A G -27.778
KPX A U -27.778
KPX A Q -27.778
KPX A T -83.333
KPX A Y -83.333
KPX A V -111.111
KPX A W -111.111
KPX D X -27.778
KPX D W -27.778
KPX D A -27.778
KPX D V -27.778
KPX D Y -27.778
KPX F o -83.333
KPX F e -83.333
KPX F u -83.333
KPX F a -83.333
KPX F A -111.111
KPX F O -27.778
KPX F C -27.778
KPX F G -27.778
KPX F Q -27.778
KPX I I 27.778
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KPX L T -83.333
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KPX L V -111.111
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KPX O X -27.778
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KPX n v -27.778
KPX n w -27.778
KPX o e 27.778
KPX o o 27.778
KPX o x -27.778
KPX o d 27.778
KPX o c 27.778
KPX o q 27.778
KPX o v -27.778
KPX o j 55.556
KPX o y -27.778
KPX o w -27.778
KPX p e 27.778
KPX p o 27.778
KPX p x -27.778
KPX p d 27.778
KPX p c 27.778
KPX p q 27.778
KPX p v -27.778
KPX p j 55.556
KPX p y -27.778
KPX p w -27.778
KPX t y -27.778
KPX t w -27.778
KPX u w -27.778
KPX v a -55.556
KPX v e -27.778
KPX v a -27.778
KPX v o -27.778
KPX v c -27.778
KPX w e -27.778
KPX w a -27.778
KPX w o -27.778
KPX w c -27.778
KPX y o -27.778
KPX y e -27.778
KPX y a -27.778
KPX y period -83.333
KPX y comma -83.333
EndKernPairs
EndKernData
EndFontMetrics
StartFontMetrics 2.0
Comment Creation Date: Mon Mar 4 13:41:11 1991
Comment UniqueID 34367
Comment VMusage 6555 39267
FontName AvantGarde-BookOblique
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL 7.6
C -1 ; WX 606 ; N minus ; B 92 219 608 287 ;
C -1 ; WX 655 ; N eth ; B 88 -12 675 753 ;
C -1 ; WX 655 ; N odieresis ; B 88 -13 669 765 ;
C -1 ; WX 747 ; N copyright ; B 53 -12 830 752 ;
C -1 ; WX 672 ; N brokenbar ; B 280 -100 510 740 ;
EndCharMetrics
StartKernData
StartKernPairs 216

KPX A y -62
KPX A w -65
KPX A v -70
KPX A u -20
KPX A quoteright -100
KPX A quotedblright -100
KPX A Y -92
KPX A W -60
KPX A V -102
KPX A U -40
KPX A T -45
KPX A Q -40
KPX A O -50
KPX A G -40
KPX A C -40

KPX B A -10

KPX C A -40

KPX D period -20
KPX D comma -20
KPX D Y -30
KPX D W -10
KPX D V -50
KPX D A -50

KPX F period -160
KPX F e -20
KPX F comma -180
KPX F a -20
KPX F A -75

KPX G period -20
KPX G comma -20
KPX G Y -20

KPX J period -15
KPX J a -20
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KPX p y -20

KPX period space -110
KPX period quoteright -120
KPX period quotedblright -120

KPX quotedblleft quoteleft -35
KPX quotedblleft A -100

KPX quotedblright space -110

KPX quoteleft quoteleft -203
KPX quoteleft A -100

KPX quoteright v -30
KPX quoteright t 10
KPX quoteright space -110
KPX quoteright s -15
KPX quoteright r -20
KPX quoteright quoteright -203
KPX quoteright quotedblright -35
KPX quoteright d -110

KPX r y 40
KPX r v 40
KPX r u 20
KPX r t 20
KPX r s 20
KPX r q -8
KPX r period -73
KPX r p 20
KPX r o -20
KPX r n 21
KPX r m 28
KPX r l 20
KPX r k 20
KPX r i 20
KPX r hyphen -60
KPX r g -15
KPX r e -4
KPX r d -6
KPX r comma -75
KPX r c -20
KPX r a -20

KPX s period 20
KPX s comma 20
Weight Medium
ItalicAngle 0
IsFixedPitch false
FontBox -166 -225 1000 931
UnderlinePosition -100
UnderlineThickness 50
Version 001.006

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EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 523
Ascender 718
Descender -207
StartCharMetrics 228
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
C 33 ; WX 278 ; N exclam ; B 90 0 187 718 ;
C 34 ; WX 355 ; Nquotedbl ; B 70 463 285 718 ;
C 35 ; WX 556 ; N numbersign ; B 28 0 529 688 ;
C 36 ; WX 556 ; N dollar ; B 32 -115 520 775 ;
C 37 ; WX 889 ; N percent ; B 39 -19 850 703 ;
C 38 ; WX 667 ; N ampersand ; B 44 -15 645 718 ;
C 39 ; WX 222 ; N quote ; B 53 463 157 718 ;
C 40 ; WX 333 ; N parenleft ; B 68 -207 299 733 ;
C 41 ; WX 333 ; N parenright ; B 34 -207 265 733 ;
C 42 ; WX 389 ; N asterisk ; B 39 431 285 718 ;
C 43 ; WX 584 ; N plus ; B 39 0 545 505 ;
C 44 ; WX 278 ; N comma ; B 87 -147 191 106 ;
C 45 ; WX 333 ; N hyphen ; B 44 232 289 322 ;
C 46 ; WX 278 ; N period ; B 87 0 191 106 ;
C 47 ; WX 278 ; N slash ; B -17 -19 295 737 ;
C 48 ; WX 556 ; N zero ; B 37 -19 519 703 ;
C 49 ; WX 556 ; N one ; B 101 0 359 703 ;
C 50 ; WX 556 ; N two ; B 26 0 507 703 ;
C 51 ; WX 556 ; N three ; B 34 -19 522 703 ;
C 52 ; WX 556 ; N four ; B 25 0 523 703 ;
C 53 ; WX 556 ; N five ; B 32 -19 514 688 ;
C 54 ; WX 556 ; N six ; B 38 -19 518 703 ;
C 55 ; WX 556 ; N seven ; B 37 0 523 688 ;
C 56 ; WX 556 ; N eight ; B 38 -19 517 703 ;
C 57 ; WX 556 ; N nine ; B 42 -19 514 703 ;
C 58 ; WX 278 ; N colon ; B 87 0 191 516 ;
C 59 ; WX 278 ; N semicolon ; B 87 -147 191 516 ;
C 60 ; WX 584 ; N less ; B 48 11 536 495 ;
C 61 ; WX 584 ; N equal ; B 39 115 545 390 ;
C 62 ; WX 584 ; N greater ; B 48 11 536 495 ;
C 63 ; WX 556 ; N question ; B 56 0 492 727 ;
C 64 ; WX 1015 ; N at ; B 147 -19 868 737 ;
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Open Source Used in Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
C -1 ; WX 990 ; N onequarter ; B 65 0 967 681 ;
C -1 ; WX 740 ; N Ucircumflex ; B 15 -17 724 910 ;
C -1 ; WX 660 ; N Scaron ; B 21 -17 639 896 ;
C -1 ; WX 400 ; N Idieresis ; B 18 0 391 877 ;
C -1 ; WX 360 ; N idieresis ; B -2 0 371 698 ;
C -1 ; WX 720 ; N Egrave ; B 20 0 724 909 ;
C -1 ; WX 800 ; N Oacute ; B 35 -17 769 910 ;
C -1 ; WX 600 ; N divide ; B 51 9 555 521 ;
C -1 ; WX 720 ; N Atilde ; B -34 0 763 870 ;
C -1 ; WX 720 ; N Aring ; B -34 0 763 934 ;
C -1 ; WX 800 ; N Odieresis ; B 35 -17 769 877 ;
C -1 ; WX 720 ; N Adieresis ; B -34 0 763 877 ;
C -1 ; WX 740 ; N Ntilde ; B 20 0 724 870 ;
C -1 ; WX 640 ; N Zcaron ; B 6 0 635 521 ;
C -1 ; WX 660 ; N Thorn ; B 20 0 658 681 ;
C -1 ; WX 400 ; N Iacute ; B 20 0 379 910 ;
C -1 ; WX 600 ; N plusminus ; B 51 0 555 514 ;
C -1 ; WX 600 ; N multiply ; B 48 10 552 514 ;
C -1 ; WX 720 ; N Yacute ; B 20 0 724 910 ;
C -1 ; WX 700 ; N Ydieresis ; B -20 0 718 877 ;
C -1 ; WX 396 ; N onesuperior ; B 65 279 345 687 ;
C -1 ; WX 660 ; N ugrave ; B 22 -8 653 730 ;
C -1 ; WX 600 ; N logicalnot ; B 51 129 555 421 ;
C -1 ; WX 680 ; N ntilde ; B 22 0 652 691 ;
C -1 ; WX 800 ; N Otilde ; B 35 -17 769 870 ;
C -1 ; WX 620 ; N otilda ; B 31 -8 585 691 ;
C -1 ; WX 740 ; N Ccedilla ; B 35 -13 724 698 ;
C -1 ; WX 720 ; N Agrave ; B -34 0 763 909 ;
C -1 ; WX 990 ; N onehalf ; B 65 0 980 681 ;
C -1 ; WX 780 ; N Eth ; B 20 0 748 681 ;
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C -1 ; WX 700 ; N Yacute ; B -20 0 718 910 ;
C -1 ; WX 800 ; N Osuperscriptcircumflex ; B 35 -17 769 910 ;
C -1 ; WX 620 ; N oacute ; B 31 -8 585 731 ;
C -1 ; WX 660 ; N mu ; B 22 -221 653 502 ;
C -1 ; WX 600 ; N minus ; B 51 207 555 323 ;
C -1 ; WX 620 ; N eth ; B 31 -8 585 741 ;
C -1 ; WX 620 ; N odieresis ; B 31 -8 585 698 ;
C -1 ; WX 740 ; N copyright ; B 23 -17 723 698 ;
C -1 ; WX 600 ; N brokenbar ; B 243 -175 362 675 ;
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KPX A v -8
KPX A Y -52
KPX A W -20
KPX A V -68
KPX A T -40

KPX F period -132
KPX F comma -130
KPX F A -59

KPX L y 19
KPX L Y -35
KPX L W -41
KPX L V -50
KPX L T -4

KPX P period -128
KPX P comma -129
KPX P A -46

KPX R y -8
KPX R Y -20
KPX R W -24
KPX R V -29
KPX R T -4

KPX T semicolon 5
KPX T s -10
KPX T r 27
KPX T period -122
KPX T o -28
KPX T i 27
KPX T hyphen -10
KPX T e -29
KPX T comma -122
KPX T colon 7
KPX T c -29
KPX T a -24
KPX T A -42

KPX V y 12
KPX V u -11
KPX V semicolon -38
KPX V r -15
KPX V period -105
KPX V o -79
KPX V i 15
KPX V hyphen -10
KPX V e -80
KPX V comma -103
EndKernPairs
EndKernData
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CC Aacute 2 ; PCC A 0 0 ; PCC acute 160 179 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 110 179 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 110 179 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 179 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 179 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 160 179 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 110 179 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 110 179 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 160 179 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 0 179 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -50 179 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -50 179 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 0 179 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 179 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 200 179 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 150 179 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 150 179 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 200 179 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 160 179 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 80 179 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 170 179 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 120 179 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 120 179 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 170 179 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 150 179 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 150 179 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 70 179 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 90 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 40 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 40 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 90 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 100 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 30 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 90 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 40 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 40 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 90 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -20 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -70 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -70 0 ;
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -20 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 80 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 110 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 60 0 ;
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Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
CC yacute 2 ; PCC y 0 0 ; PCC acute 139 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 139 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 102 0 ;
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FullName Helvetica Bold Oblique
FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
FontBBox -174 -228 1114 962
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
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EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
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C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 94 0 397 718 ;
C 34 ; WX 474 ; N quotedbl ; B 193 447 529 718 ;
C 35 ; WX 556 ; N numbersign ; B 60 0 644 698 ;
C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;
C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;
C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;
C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;
C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;
C 41 ; WX 333 ; N parenright ; B -25 -208 369 734 ;
C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;
C 43 ; WX 584 ; N plus ; B 82 0 610 506 ;
C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;
C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;
C 46 ; WX 278 ; N period ; B 64 0 245 146 ;
C 47 ; WX 278 ; N slash ; B -37 -19 468 737 ;
C 48 ; WX 556 ; N zero ; B 86 -19 617 710 ;
C 49 ; WX 556 ; N one ; B 173 0 529 710 ;
C 50 ; WX 556 ; N two ; B 26 0 619 710 ;
C 51 ; WX 556 ; N three ; B 65 -19 608 710 ;
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Open Source Used In Foundation RHEL7.6

5467
KPX r d -20
KPX r comma -60
KPX r c -20

KPX s w -15

KPX semicolon space -40

KPX space quoteleft -60
KPX space quotedblleft -80
KPX space Y -120
KPX space W -80
KPX space V -80
KPX space T -100

KPX v period -80
KPX v o -30
KPX v comma -80
KPX v a -20

KPX w period -40
KPX w o -20
KPX w comma -40

KPX x e -10

EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 235 186 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 235 186 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 235 186 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 235 186 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 235 186 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 235 186 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 215 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 207 186 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 207 186 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 207 186 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 207 186 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 13 186 ;
Open Source Used In Foundation RHEL7.6

StartKernData
StartKernPairs 169
Open Source Used In Foundation RHEL7.6
XHeight 439
Ascender 626
Descender -142
StartCharMetrics 260
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;
C 33 ; WX 600 ; N exclam ; B 216 -15 495 572 ;
C 34 ; WX 600 ; N quotedbl ; B 212 277 584 562 ;
C 35 ; WX 600 ; N numbersign ; B 88 -45 640 651 ;
C 36 ; WX 600 ; N dollar ; B 87 -126 629 666 ;
C 37 ; WX 600 ; N percent ; B 102 -15 624 616 ;
C 38 ; WX 600 ; N ampersand ; B 62 -15 594 543 ;
C 39 ; WX 600 ; N quoteright ; B 230 277 542 562 ;
C 40 ; WX 600 ; N parenleft ; B 266 -102 592 616 ;
C 41 ; WX 600 ; N parenright ; B 117 -102 444 616 ;
C 42 ; WX 600 ; N asterisk ; B 179 219 597 601 ;
C 43 ; WX 600 ; N plus ; B 114 39 596 478 ;
C 44 ; WX 600 ; N comma ; B 99 -111 430 174 ;
C 45 ; WX 600 ; N hyphen ; B 143 203 567 313 ;
C 46 ; WX 600 ; N period ; B 207 -15 426 171 ;
C 47 ; WX 600 ; N slash ; B 91 -77 626 626 ;
C 48 ; WX 600 ; N zero ; B 136 -15 592 616 ;
C 49 ; WX 600 ; N one ; B 93 0 561 616 ;
C 50 ; WX 600 ; N two ; B 61 0 593 616 ;
C 51 ; WX 600 ; N three ; B 72 -15 571 616 ;
C 52 ; WX 600 ; N four ; B 82 0 558 616 ;
C 53 ; WX 600 ; N five ; B 77 -15 621 601 ;
C 54 ; WX 600 ; N six ; B 136 -15 652 616 ;
C 55 ; WX 600 ; N seven ; B 147 0 622 601 ;
C 56 ; WX 600 ; N eight ; B 115 -15 604 616 ;
C 57 ; WX 600 ; N nine ; B 76 -15 592 616 ;
C 58 ; WX 600 ; N colon ; B 206 -15 479 425 ;
C 59 ; WX 600 ; N semicolon ; B 99 -111 480 425 ;
C 60 ; WX 600 ; N less ; B 121 15 612 501 ;
C 61 ; WX 600 ; N equal ; B 96 118 614 398 ;
C 62 ; WX 600 ; N greater ; B 97 15 589 501 ;
C 63 ; WX 600 ; N question ; B 183 -14 591 580 ;
C 64 ; WX 600 ; N at ; B 66 -15 641 616 ;
C 65 ; WX 600 ; N A ; B -9 0 631 562 ;
C 66 ; WX 600 ; N B ; B 30 0 629 562 ;
C 67 ; WX 600 ; N C ; B 75 -18 674 580 ;
C 68 ; WX 600 ; N D ; B 30 0 664 562 ;
C 69 ; WX 600 ; N E ; B 25 0 669 562 ;
C 70 ; WX 600 ; N F ; B 39 0 683 562 ;
C 71 ; WX 600 ; N G ; B 75 -18 674 580 ;
C 72 ; WX 600 ; N H ; B 20 0 699 562 ;
C 73 ; WX 600 ; N I ; B 77 0 642 562 ;
C 74 ; WX 600 ; N J ; B 59 -18 720 562 ;
C 75 ; WX 600 ; N K ; B 21 0 691 562 ;
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
C -1 ; WX 750 ; N onehalf ; B 15 -3 735 692 ;
EndCharMetrics
StartKernData
StartKernPairs 111

KPX A y -74
KPX A w -74
KPX A v -92
KPX A space -55
KPX A quoteright -74
KPX A Y -111
KPX A W -74
KPX A V -111
KPX A T -74

KPX F period -92
KPX F comma -92
KPX F A -74

KPX L y -55
KPX L space -37
KPX L quoteright -74
KPX L Y -92
KPX L W -74
KPX L V -92
KPX L T -74

KPX P space -18
KPX P period -129
KPX P comma -129
KPX P A -92

KPX R y -37
KPX R Y -37
KPX R W -37
KPX R V -55
KPX R T -37

KPX T y -90
KPX T w -90
KPX T u -90
KPX T semicolon -55
KPX T s -90
KPX T r -90
KPX T period -74
KPX T o -92
KPX T i -55
KPX T hyphen -55
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6

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C 101 ; WX 456 ; N e ; B 33 -15 423 538 ;
C 102 ; WX 228 ; N f ; B 11 0 215 728 ; L i fi ; L 1 fl ;
C 103 ; WX 456 ; N g ; B 33 -220 409 538 ;
C 104 ; WX 456 ; N h ; B 53 0 403 718 ;
C 105 ; WX 182 ; N i ; B 55 0 127 718 ;
C 106 ; WX 182 ; N j ; B -13 -210 127 718 ;
C 107 ; WX 410 ; N k ; B 55 0 127 718 ;
C 108 ; WX 182 ; N l ; B 55 0 127 718 ;
C 109 ; WX 683 ; N m ; B 53 0 631 538 ;
C 110 ; WX 456 ; N n ; B 53 0 403 538 ;
C 111 ; WX 456 ; N o ; B 29 -14 427 538 ;
C 112 ; WX 456 ; N p ; B 48 -207 424 538 ;
C 113 ; WX 456 ; N q ; B 29 -207 405 538 ;
C 114 ; WX 273 ; N r ; B 63 0 272 538 ;
C 115 ; WX 410 ; N s ; B 26 -15 380 538 ;
C 116 ; WX 228 ; N t ; B 11 -7 211 669 ;
C 117 ; WX 456 ; N u ; B 56 -15 401 523 ;
C 118 ; WX 410 ; N v ; B 7 0 403 523 ;
C 119 ; WX 592 ; N w ; B 11 0 581 523 ;
C 120 ; WX 410 ; N x ; B 9 0 402 523 ;
C 121 ; WX 410 ; N y ; B 9 -214 401 523 ;
C 122 ; WX 410 ; N z ; B 25 0 385 523 ;
C 123 ; WX 274 ; N braceleft ; B 34 -196 239 722 ;
C 124 ; WX 213 ; N bar ; B 77 -19 137 737 ;
C 125 ; WX 274 ; N braceright ; B 34 -196 239 722 ;
C 126 ; WX 479 ; N asciitilde ; B 50 180 429 326 ;
C 127 ; WX 273 ; N exclamdown ; B 97 -195 176 523 ;
C 128 ; WX 456 ; N cent ; B 42 -115 421 623 ;
C 129 ; WX 456 ; N dollar ; B 27 -16 442 718 ;
C 130 ; WX 137 ; N fraction ; B -136 -19 273 703 ;
C 131 ; WX 456 ; N fi ; B 11 0 411 728 ;
C 132 ; WX 456 ; N fl ; B 11 0 411 728 ;
C 133 ; WX 456 ; N endash ; B 0 240 456 313 ;
C 134 ; WX 456 ; N dagger ; B 35 -159 421 718 ;
C 135 ; WX 456 ; N daggerdbl ; B 35 -159 421 718 ;
C 136 ; WX 228 ; N periodcentered ; B 63 190 166 315 ;
C 137 ; WX 440 ; N paragraph ; B 15 -173 408 718 ;
C 138 ; WX 287 ; N bullet ; B 15 202 273 517 ;
C 139 ; WX 182 ; N quotesingle ; B 43 -149 129 106 ;
Open Source Used In Foundation RHEL7.6
KPX space W -32
KPX space V -40
KPX space T -40

KPX v period -65
KPX v o -20
KPX v e -20
KPX v comma -65
KPX v a -20

KPX w period -48
KPX w o -7
KPX w e -7
KPX w comma -48
KPX w a -11

KPX x e -24

KPX y period -81
KPX y o -15
KPX y e -15
KPX y comma -81
KPX y a -15

KPX z o -11
KPX z e -11
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 137 195 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 137 195 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 137 195 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 137 195 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 137 175 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 137 195 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 137 195 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 137 195 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 137 195 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 137 195 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -22 195 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -22 195 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -22 195 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -22 195 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 168 195 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 183 195 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 183 195 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 183 195 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 183 195 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 195 195 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 195 195 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 195 195 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 195 225 ;
Open Source Used In Foundation RHEL7.6
KPX J u -35
KPX J period -25
KPX J o -25
KPX J e -25
KPX J comma -25
KPX J a -35
KPX J A -40

KPX K y -40
KPX K u -40
KPX K o -40
KPX K e -35
KPX K O -50

KPX L y -30
KPX L quoterright -37
KPX L quotedblright 0
KPX L Y -20
KPX L W -55
KPX L V -55
KPX L T -20

KPX N period 0
KPX N comma 0
KPX N A -27

KPX O period 0
KPX O comma 0
KPX O Y -50
KPX O X -40
KPX O W -50
KPX O V -50
KPX O T -40
KPX O A -55

KPX P period -135
KPX P o -80
KPX P e -80
KPX P comma -135
KPX P a -80
KPX P A -90

KPX Q period 0
KPX Q comma 0
KPX Q U -10

KPX R Y -18
KPXRW -18
KPXRV -18
KPXRU -40
KPXRTO 0
KPXRRO -40

KPXS period 0
KPXS comma 0

KPXTY -74
KPXTW -74
KPXTU -55
KPXTsemicolon -65
KPXTT -55
KPXTperiod -74
KPXTO -92
KPXTI -55
KPXThyphen -74
KPXTH 0
KPXTT -92
KPXTcomma -74
KPXTTcolon -55
KPXTA -92
KPXTOT -18
KPXTA -50

KPXUPeriod -25
KPXUcomma -25
KPXUA -40

KPXVU -74
KPXVsemicolon -74
KPXVperiod -129
KPXVO -111
KPXVI -74
KPXVhyphen -55
KPXVE -111
KPXVcomma -129
KPXVcolon -55
KPXVA -111
KPXVO -30
KPXVG 0
KPXVA -60

KPXWy -70
KPXWu -55
KPXWsemicolon -65
KPXWperiod -92
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -52 0 ;
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 49 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 84 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 84 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 84 0 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 69 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 28 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 74 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 74 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 74 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 84 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 56 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 36 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 8 0 ;
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EndFontMetrics
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Comment Creation Date: Fri Dec 28 16:35:46 1990
Comment UniqueID 33936
Comment VMusage 34559 41451
FontName ZapfChancery-MediumItalic
FullName ITC Zapf Chancery Medium Italic
FamilyName ITC Zapf Chancery
Weight Medium
ItalicAngle -14
IsFixedPitch false
FontBBox -181 -314 1065 831
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
EncodingScheme AdobeStandardEncoding
CapHeight 708
XHeight 438
Ascender 714
Descender -314
StartCharMetrics 228
C 32 ; WX 220 ; N space ; B 0 0 0 0 ;
C 33 ; WX 280 ; N exclamation ; B 119 -14 353 610 ;
C 34 ; WX 220 ; N quotationmark ; B 120 343 333 610 ;
C 35 ; WX 440 ; N number sign ; B 83 0 521 594 ;
C 36 ; WX 440 ; N dollar sign ; B 60 -144 508 709 ;
C 37 ; WX 680 ; N percent sign ; B 132 -160 710 700 ;
C 38 ; WX 780 ; N ampersand ; B 126 -16 915 610 ;
KPX F i 10
KPX F comma -30

KPX G period -20
KPX G comma -10

KPX J period -20
KPX J comma -10

KPX K u -20
KPX K o -20
KPX K e -20

KPX L y -10
KPX L quoteright -25
KPX L quotedblright -25
KPX L W -10
KPX L V -20

KPX O period -20
KPX O comma -10
KPX O Y 10
KPX O T 20
KPX O A -20

KPX P period -50
KPX P o -10
KPX P e -10
KPX P comma -40
KPX P a -20
KPX P A -10

KPX Q U -10

KPX R Y 10
KPX R W 10
KPX R T 20

KPX T o -20
KPX T i 20
KPX T hyphen -20
KPX T h 20
KPX T e -20
KPX T a -20
KPX T O 30
KPX T A 10

KPX V period -100
KPX g y 10
KPX g period -30
KPX g i 10
KPX g e 10
KPX g comma -20
KPX g a 10

KPX k y 10
KPX k o -10
KPX k e -20

KPX m y 10
KPX m u 10

KPX n y 20

KPX o period -30
KPX o comma -20

KPX p period -30
KPX p p -10
KPX p comma -20

KPX period quotedblright -80
KPX period quotedblright -80

KPX quotedblleft quoteleft 20
KPX quotedblleft A 10

KPX quoteleft quoteleft -115
KPX quoteleft A 10

KPX quoteright v 30
KPX quoteright t 20
KPX quoteright s -25
KPX quoteright r 30
KPX quoteright quoteright -115
KPX quoteright quotedblright 20
KPX quoteright l 20

KPX r period -50
KPX r i 10
KPX r comma -40

KPX s period -20
KPX s comma -10

KPX v period -30
KPX v comma -20

KPX w period -30
KPX w o o 10
KPX w h 20
KPX w comma -20
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 280 162 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 240 172 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 240 152 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 250 162 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 260 172 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 180 152 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 230 162 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 180 172 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 170 152 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 220 162 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 110 162 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 60 172 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 50 152 ;
CC Iggrave 2 ; PCC I 0 0 ; PCC grave 100 162 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 210 142 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 160 162 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 130 172 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 120 152 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 150 162 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 90 142 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 310 162 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 260 172 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 260 152 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 270 162 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 220 162 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 170 152 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 130 172 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 70 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 20 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 10 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 80 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 60 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 0 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 40 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex -10 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis -20 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 30 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -30 0 ;
Open Source Used In Foundation RHEL7.6
KPX L W 1
KPX L V -4
KPX L T 28

KPX P period -60
KPX P comma -55
KPX P A -8

KPX R y 59
KPX R Y 26
KPX R W 13
KPX R V 8
KPX R T 71

KPX T s 16
KPX T r 38
KPX T period -33
KPX T o 15
KPX T i 42
KPX T hyphen 90
KPX T e 13
KPX T comma -28
KPX T c 14
KPX T a 17
KPX T A 1

KPX V y 15
KPX V u -38
KPX V r -41
KPX V period -40
KPX V o -71
KPX V i -20
KPX V hyphen 11
KPX V e -72
KPX V comma -34
KPX V a -69
KPX V A -66

KPX W y 15
KPX W u -38
KPX W r -41
KPX W period -40
KPX W o -68
KPX W i -20
KPX W hyphen 11
KPX W e -69
KPX W comma -34
KPX W a -66
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6

StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 46 121 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex -4 121 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis -1 136 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave -4 121 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 12 126 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 27 126 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 56 121 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 26 121 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 29 136 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 26 121 ;
CC Gcaron 2 ; PCC G 0 0 ; PCC caron 29 136 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 26 121 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 26 121 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 29 136 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 26 121 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 27 126 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 26 121 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 26 121 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 29 136 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 26 121 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 27 126 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 59 136 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 56 121 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 26 121 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 29 136 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave -4 121 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 56 121 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 29 136 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 29 136 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 0 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 0 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 0 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 0 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 0 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 0 0 ;
Open Source Used In Foundation RHEL7.6
Open Source Used in Foundation RHEL7.6

C 245 ; WX 280 ; N dotlessi ; B 88 -8 351 484 ;
C 248 ; WX 340 ; N Islash ; B 50 -8 398 717 ;
C 249 ; WX 540 ; N oslash ; B 65 -49 571 532 ;
C 250 ; WX 900 ; N oe ; B 65 -8 948 494 ;
C 251 ; WX 620 ; N germandbls ; B -121 -111 653 698 ;
C -1 ; WX 540 ; N ecircumflex ; B 65 -8 575 685 ;
C -1 ; WX 540 ; N edieresis ; B 65 -8 575 688 ;
C -1 ; WX 620 ; N acute ; B 71 -8 686 706 ;
C -1 ; WX 740 ; N registered ; B 84 -17 784 698 ;
C -1 ; WX 280 ; N icircumflex ; B 65 -8 351 706 ;
C -1 ; WX 620 ; N adieresis ; B 88 -8 686 688 ;
C -1 ; WX 540 ; N ograve ; B 65 -8 572 706 ;
C -1 ; WX 620 ; N uacute ; B 88 -8 686 706 ;
C -1 ; WX 620 ; N ucircumflex ; B 88 -8 686 685 ;
C -1 ; WX 700 ; N Aacute ; B -25 0 720 883 ;
C -1 ; WX 280 ; N grave ; B 88 -8 351 706 ;
C -1 ; WX 320 ; N ICircumflex ; B 21 0 449 862 ;
C -1 ; WX 480 ; N ccedilla ; B 65 -178 522 494 ;
C -1 ; WX 620 ; N adieresis ; B 71 -8 686 688 ;
C -1 ; WX 680 ; N Ecircumflex ; B 21 0 736 862 ;
C -1 ; WX 540 ; N scaron ; B 65 -8 547 684 ;
C -1 ; WX 600 ; N thorn ; B -24 -212 620 717 ;
C -1 ; WX 980 ; N trademark ; B 69 277 965 681 ;
C -1 ; WX 540 ; N egrave ; B 65 -8 575 706 ;
C -1 ; WX 372 ; N threesuperior ; B 70 269 439 698 ;
C -1 ; WX 520 ; N zcaron ; B 38 -8 561 684 ;
C -1 ; WX 620 ; N atilde ; B 71 -8 686 671 ;
C -1 ; WX 620 ; N aring ; B 71 -8 686 706 ;
C -1 ; WX 540 ; N ocircumflex ; B 65 -8 572 685 ;
C -1 ; WX 680 ; N Edieresis ; B 21 0 736 865 ;
C -1 ; WX 930 ; N threesemisuperior ; B 99 0 913 691 ;
C -1 ; WX 600 ; N ydieresis ; B 60 -221 609 688 ;
C -1 ; WX 600 ; N yacute ; B 60 -221 609 706 ;
C -1 ; WX 280 ; N icue ; B 88 -8 351 706 ;
C -1 ; WX 700 ; N Acircumflex ; B -25 0 720 862 ;
C -1 ; WX 720 ; N Uacute ; B 118 -17 842 883 ;
C -1 ; WX 540 ; N ecute ; B 65 -8 575 706 ;
C -1 ; WX 760 ; N Ograve ; B 88 -17 799 883 ;
C -1 ; WX 620 ; N agrave ; B 71 -8 686 706 ;
C -1 ; WX 720 ; N Udieresis ; B 118 -17 842 865 ;
C -1 ; WX 620 ; N acircumflex ; B 71 -8 686 685 ;
C -1 ; WX 320 ; N Igrave ; B 21 0 412 883 ;
C -1 ; WX 372 ; N twosuperior ; B 68 279 439 698 ;
C -1 ; WX 720 ; N Ugrave ; B 118 -17 842 863 ;
C -1 ; WX 930 ; N onequarter ; B 91 0 913 681 ;
C -1 ; WX 720 ; N UCircumflex ; B 118 -17 842 862 ;
C -1 ; WX 640 ; N Scaron ; B 61 -17 668 861 ;
C -1 ; WX 320 ; N IIdieresis ; B 21 0 447 865 ;
Open Source Used In Foundation RHEL7.6

CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 70 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 20 0 ;
EndComposites
EndFontMetrics
StartFontMetrics 2.0
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Comment UniqueID 5000820
FontName CMSY10
EncodingScheme FontSpecific
FullName CMSY10
FamilyName Computer Modern
Weight Medium
ItalicAngle -14.035
IsFixedPitch false
Version 1.00
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBBox -29 -960 1116 775
CapHeight 683.333
XHeight 430.556
Ascender 694.444
Descender -960
Comment FontID CMSY
Comment DesignSize 10 (pts)
Comment CharacterCodingScheme TeX math symbols
Comment Space 0 0 0
Comment ExtraSpace 0
Comment Quad 1000
Comment Num 676.508 393.732 443.731
Comment Denom 685.951 344.841
Comment Sup 412.892 362.892 288.889
Comment Sub 150 247.217
Comment Supdrop 386.108
Comment Subdrop 50
Comment Delim 2390 1010
Comment Axisheight 250
StartCharMetrics 129
C 0 ; WX 777.778 ; N minus ; B 83 230 694 270 ;
C 1 ; WX 277.778 ; N periodcentered ; B 86 197 192 303 ;
C 2 ; WX 777.778 ; N multiply ; B 147 9 630 491 ;
C 3 ; WX 500 ; N asteriskmath ; B 65 34 434 465 ;
C 4 ; WX 777.778 ; N divide ; B 56 -30 722 530 ;
C 5 ; WX 500 ; N diamondmath ; B 11 11 489 489 ;
C 6 ; WX 777.778 ; N plusminus ; B 56 0 721 666 ;
C 7 ; WX 777.778 ; N minusplus ; B 56 -166 721 500 ;
C 8 ; WX 777.778 ; N circleplus ; B 56 -83 721 583 ;
C 9 ; WX 777.778 ; N circleminus ; B 56 -83 721 583 ;
C 10 ; WX 777.778 ; N circlemultiply ; B 56 -83 721 583 ;
Open Source Used In Foundation RHEL7.6
Comment The following are bogus kern pairs for TeX positioning of accents

StartKernData
StartKernPairs 26
KPX A prime 194.444
KPX B prime 138.889
KPX C prime 138.889
KPX D prime 83.333
KPX E prime 111.111
KPX F prime 111.111
KPX G prime 111.111
KPX H prime 111.111
KPX I prime 27.778
KPX J prime 166.667
KPX K prime 55.556
KPX L prime 138.889
KPX M prime 138.889
KPX N prime 83.333
KPX O prime 111.111
KPX P prime 83.333
KPX Q prime 111.111
KPX R prime 83.333
KPX S prime 138.889
KPX T prime 27.778
KPX U prime 83.333
KPX V prime 27.778
Open Source Used In Foundation RHEL7.6
Open Source Used in Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
KPX A X -18
KPX A W -54
KPX A V -70
KPX A U -40
KPX A T -58
KPX A Q -18
KPX A O -18
KPX A G -18
KPX A C -18

KPX B y -18
KPX B u -12
KPX B r -12
KPX B o -6
KPX B l -15
KPX B k -15
KPX B i -12
KPX B h -15
KPX B e -6
KPX B b -10
KPX B a -12
KPX B W -20
KPX B V -20
KPX B U -25
KPX B T -20

KPX C z -5
KPX C y -24
KPX C u -18
KPX C r -6
KPX C o -12
KPX C e -12
KPX C a -16
KPX C Q -6
KPX C O -6
KPX C G -6
KPX C C -6

KPX D u -12
KPX D r -12
KPX D period -40
KPX D o -5
KPX D i -12
KPX D h -18
KPX D e -5
KPX D comma -40
KPX D a -15
KPX D Y -60
 KPX D W -40
 KPX D V -40

 KPX E y -30
 KPX E w -24
 KPX E v -24
 KPX E u -12
 KPX E t -18
 KPX E s -12
 KPX E r -4
 KPX E q -6
 KPX E period 10
 KPX E p -18
 KPX E o -6
 KPX E n -4
 KPX E m -4
 KPX E j -6
 KPX E i -6
 KPX E g -6
 KPX E e -6
 KPX E d -6
 KPX E comma 10
 KPX E c -6
 KPX E b -5
 KPX E a -4
 KPX E Y -6
 KPX E W -6
 KPX E V -6

 KPX F y -18
 KPX F u -12
 KPX F r -36
 KPX F period -150
 KPX F quotedblright 20
 KPX F quotedblright 20
 KPX F y -18
 KPX F u -12
 KPX F r -36
 KPX F period -150
 KPX F a -48
 KPX F A -60

 KPX G y -12
 KPX G u -12
 KPX G r -18
 KPX G quotedblright -20
 KPX G n -18
KPX y hyphen -20
KPX y comma -72
KPX y colon 20

KPX z quoteright -20
KPX z quotedblright -20
KPX z o -6
KPX z e -6
KPX z d -6
KPX z c -6
EndKernPairs
EndKernData
EndFontMetrics
StartFontMetrics 2.0
Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.
Comment Creation Date: Fri Jan 17 13:15:45 1992
Comment UniqueID 37666
Comment VMusage 34143 41035
FontName Utopia-Italic
FullName Utopia Italic
FamilyName Utopia
Weight Regular
ItalicAngle -13
IsFixedPitch false
FontBBox -201 -250 1170 890
UnderlinePosition -100
UnderlineThickness 50
Version 001.002
Notice Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved. Utopia is a registered trademark of Adobe Systems Incorporated.
EncodingScheme AdobeStandardEncoding
CapHeight 692
XHeight 502
Ascender 742
Descender -242
StartCharMetrics 228
  C 32 ; WX 225 ; N space ; B 0 0 0 0 ;
  C 33 ; WX 240 ; N exclam ; B 34 -12 290 707 ;
  C 34 ; WX 402 ; N quotedbl ; B 171 469 454 742 ;
  C 35 ; WX 530 ; N numbersign ; B 54 0 585 668 ;
  C 36 ; WX 530 ; N dollar ; B 31 -109 551 743 ;
  C 37 ; WX 826 ; N percent ; B 98 -25 795 702 ;
  C 38 ; WX 725 ; N ampersand ; B 60 -12 703 680 ;
  C 39 ; WX 216 ; N quoteright ; B 112 482 265 742 ;
  C 40 ; WX 350 ; N parenleft ; B 106 -128 458 692 ;
  C 41 ; WX 350 ; N parenright ; B -46 -128 306 692 ;
  C 42 ; WX 412 ; N asterisk ; B 106 356 458 707 ;
  C 43 ; WX 570 ; N plus ; B 58 0 542 490 ;
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
KPX D a 6
KPX D Y -70
KPX D W -50
KPX D V -60

KPX E z -6
KPX E y -18
KPX E x 5
KPX E w -20
KPX E v -18
KPX E u -24
KPX E t -18
KPX E s 5
KPX E r -6
KPX E quoteright 10
KPX E quotedblright 10
KPX E q 10
KPX E period 10
KPX E p -12
KPX E o -6
KPX E n -12
KPX E m -12
KPX E l -12
KPX E k -10
KPX E j -6
KPX E i -12
KPX E g -12
KPX E e 5
KPX E d 10
KPX E comma 10
KPX E b -6

KPX F y -12
KPX F u -30
KPX F r -18
KPX F quoteright 15
KPX F quotedblright 35
KPX F period -180
KPX F o -30
KPX F l -6
KPX F i -12
KPX F e -30
KPX F comma -170
KPX F a -30
KPX F A -45

KPX G y -16
KPX G u -22
KPX R C -10
KPX R A -6

KPX S y -30
KPX S w -30
KPX S v -30
KPX S u -18
KPX S t -30
KPX S r -20
KPX S quoteright -38
KPX S quotedblright -30
KPX S p -18
KPX S n -24
KPX S m -24
KPX S l -30
KPX S k -24
KPX S j -25
KPX S i -30
KPX S h -30
KPX S e -6

KPX T z -70
KPX T y -60
KPX T w -64
KPX T u -74
KPX T semicolon -36
KPX T s -72
KPX T r -64
KPX T quoteright 45
KPX T quotedblright 50
KPX T period -100
KPX T parenright 54
KPX T o -90
KPX T m -64
KPX T i -34
KPX T hyphen -100
KPX T endash -60
KPX T emdash -60
KPX T e -90
KPX T comma -110
KPX T colon -10
KPX T bracketright 45
KPX T braceright 54
KPX T a -90
KPX T Y 12
KPX T X 18
KPX T W 6
KPX T T 18
Open Source Used In Foundation RHEL7.6

5635
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
KPX C comma -50
KPX D period -50
KPX D comma -50
KPX D Y -18
KPX D W -18
KPX D V -18
KPX F r -55
KPX F period -125
KPX F o -55
KPX F i -10
KPX F e -55
KPX F comma -125
KPX F a -55
KPX F A -35
KPX G period -50
KPX G comma -50
KPX J u -18
KPX J period -100
KPX J o -37
KPX J e -37
KPX J comma -100
KPX J a -37
KPX J A -18
KPX L y -50
KPX L quoteright -125
KPX L quotedblright -125
KPX L Y -100
KPX L W -100
KPX L V -100
KPX L T -100
KPX N period -60
KPX N comma -60
KPX O period -50
KPX O comma -50
KPX O Y -18
KPX O X -18
KPX O V -18
KPX O T 18
KPX P period -125
KPX P o -55
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
Open Source Used in Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
KPX O V -45
KPX O T -15
KPX O A -60

KPX P period -200
KPX P o -20
KPX P e -20
KPX P comma -220
KPX P a -20
KPX P A -100

KPX Q comma 20

KPX R W 25
KPX R V -10
KPX R U 25
KPX R T 40
KPX R O 25

KPX S comma 20

KPX T y -10
KPX T w -55
KPX T u -46
KPX T semicolon -29
KPX T r -30
KPX T period -91
KPX T o -49
KPX T hyphen -75
KPX T e -49
KPX T comma -82
KPX T colon -15
KPX T a -70
KPX T O -15
KPX T A -25

KPX U period -20
KPX U comma -20
KPX U A -40

KPX V u -55
KPX V semicolon -33
KPX V period -145
KPX V o -101
KPX V i -15
KPX V hyphen -75
KPX V e -101
KPX V comma -145
KPX e x -20
KPX e w -20
KPX e v -20

KPX f period -40
KPX f o -20
KPX f l -15
KPX f i -15
KPX f f -20
KPX f dotlessi -15
KPX f comma -40
KPX f a -15

KPX g i 25
KPX g a 15

KPX h y -30

KPX k y -5
KPX k o -30
KPX k e -40

KPX m y -20
KPX m u -20

KPX n y -15
KPX n v -30

KPX o y -20
KPX o x -30
KPX o w -20
KPX o v -30

KPX p y -20

KPX period space -50
KPX period quoteright -70
KPX period quotedblright -70

KPX quotedblleft A -50

KPX quotedblright space -50

KPX quoteleft quoteleft -80
KPX quoteleft A -50

KPX quoteright v -10
KPX quoteright t 10
KPX w a -30

KPX x e -20

KPX y period -100
KPX y o -30
KPX y e -20
KPX y comma -100
KPX y c -35
KPX y a -30
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 192 170 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 132 170 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 152 170 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 192 170 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 215 135 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 162 170 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 82 170 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 22 170 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 42 170 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 82 170 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -13 170 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -98 170 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -78 170 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -63 170 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 162 170 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 242 170 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 182 170 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 202 170 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 242 170 ;
CC Otild 2 ; PCC O 0 0 ; PCC tilde 212 170 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 22 170 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 177 170 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 82 170 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 102 170 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 107 170 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 167 170 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 92 170 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 37 170 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 120 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 60 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 120 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 150 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 90 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 110 0 ;
Comment DefaultRuleThickness 40
Comment BigOpSpacing 111.111 166.667 200 600 100
Comment Ascending characters (74)
Ascending 0, 16, 18, 32, 48% (- parenleft
Ascending 1, 17, 19, 33, 49% ) - parenright
Ascending 2, 104, 20, 34, 50% [ - bracketleft
Ascending 3, 105, 21, 35, 51% ] - bracketright
Ascending 4, 106, 22, 36, 52% lfloor - floorleft
Ascending 5, 107, 23, 37, 53% rfloor - floorright
Ascending 6, 108, 24, 38, 54% lceil - ceilingleft
Ascending 7, 109, 25, 39, 55% rceil - ceilingright
Ascending 8, 110, 26, 40, 56% { - braceleft
Ascending 9, 111, 27, 41, 57% } - braceright
Ascending 10, 68, 28, 42% < - anglebracketleft
Ascending 11, 69, 29, 43% > - anglebracketright
Ascending 14, 46, 30, 44% / - slash
Ascending 15, 47, 31, 45% \ - backslash
Ascending 70, 71% bigsqcup - unionsq
Ascending 72, 73% oint - contintegral
Ascending 74, 75% bigodot - circledot
Ascending 76, 77% bigoplus - circleplus
Ascending 78, 79% bigtimes - circletimes
Ascending 80, 88% sum - summation
Ascending 81, 89% prod - product
Ascending 82, 90% int - integral
Ascending 83, 91% bigcup - union
Ascending 84, 92% bigcap - intersection
Ascending 85, 93% biguplus - unionmulti
Ascending 86, 94% bigwedge - logicaland
Ascending 87, 95% bigvee - logicalor
Ascending 96, 97% coprod - coproduct
Ascending 98, 99, 100% widehat - hatwide
Ascending 101, 102, 103% widetilde - tildewide
Ascending 112, 113, 114, 115, 116% radical - sqrt
Comment Extensible characters (28)
Extensible 12 top 0 mid 0 bot 0 rep 12 % vert - thin bar
Extensible 13 top 0 mid 0 bot 0 rep 13 % Vert - thin double bar
Extensible 48 top 48 mid 0 bot 0 rep 48 % ( - parenleft
Extensible 49 top 49 mid 0 bot 0 rep 49 % ) - parenright
Extensible 50 top 50 mid 0 bot 52 rep 54 % [ - bracketleft
Extensible 51 top 51 mid 0 bot 53 rep 55 % ] - bracketright
Extensible 52 top 52 mid 0 bot 52 rep 54 % lfloor - floorleft
Extensible 53 top 53 mid 0 bot 53 rep 55 % rfloor - floorright
Extensible 54 top 54 mid 0 bot 0 rep 54 % lceil - ceilingleft
Extensible 55 top 55 mid 0 bot 0 rep 55 % rceil - ceilingright
Extensible 56 top 56 mid 60 bot 58 rep 62 % { - braceleft
Extensible 57 top 57 mid 61 bot 59 rep 62 % } - braceright
Extensible 58 top 58 mid 0 bot 58 rep 62 % lgroup
Comment Extensible 59 top 57 mid 0 bot 59 rep 62 \% rgroup
Comment Extensible 60 top 0 mid 0 bot 0 rep 63 \% arrowvert
Comment Extensible 61 top 0 mid 0 bot 0 rep 119 \% Arrowvert
Comment Extensible 62 top 0 mid 0 bot 0 rep 62 \% bracevert
Comment Extensible 63 top 120 mid 0 bot 121 rep 63 \% updownarrow
Comment Extensible 64 top 56 mid 0 bot 59 rep 62 \% Imoustache
Comment Extensible 65 top 57 mid 0 bot 58 rep 62 \% rmoustache
Comment Extensible 66 top 0 mid 0 bot 0 rep 66 \% parenleftexten
Comment Extensible 67 top 0 mid 0 bot 0 rep 67 \% parenrightexten
Comment Extensible 116 top 118 mid 0 bot 116 rep 117\% radical
Comment Extensible 119 top 126 mid 0 bot 127 rep 119\% Updownarrow
Comment Extensible 120 top 120 mid 0 bot 0 rep 63\% uparrow
Comment Extensible 121 top 0 mid 0 bot 121 rep 63\% downarrow
Comment Extensible 126 top 126 mid 0 bot 0 rep 119\% Uparrow
Comment Extensible 127 top 0 mid 0 bot 127 rep 119\% Downarrow
StartCharMetrics 129
C 0 ; WX 458.333 ; N parenleftbig ; B 152 -1159 413 40 ;
C 1 ; WX 458.333 ; N parenrightbig ; B 44 -1159 305 40 ;
C 2 ; WX 416.667 ; N bracketleftbig ; B 202 -1159 394 40 ;
C 3 ; WX 416.667 ; N bracketrightbig ; B 22 -1159 214 40 ;
C 4 ; WX 472.222 ; N floorleftbig ; B 202 -1159 449 40 ;
C 5 ; WX 472.222 ; N floorrightbig ; B 22 -1159 269 40 ;
C 6 ; WX 472.222 ; N ceilingleftbig ; B 202 -1159 449 40 ;
C 7 ; WX 472.222 ; N ceilingrightbig ; B 22 -1159 269 40 ;
C 8 ; WX 583.333 ; N braceleftbig ; B 113 -1159 469 40 ;
C 9 ; WX 583.333 ; N bracerightbig ; B 113 -1159 469 40 ;
C 10 ; WX 472.222 ; N angbracketleftbig ; B 98 -1160 393 40 ;
C 11 ; WX 472.222 ; N angbracketrightbig ; B 78 -1160 373 40 ;
C 12 ; WX 333.333 ; N vextendsingle ; B 145 -621 188 21 ;
C 13 ; WX 555.556 ; N vextenddouble ; B 145 -621 410 21 ;
C 14 ; WX 577.778 ; N slashbig ; B 56 -1159 521 40 ;
C 15 ; WX 577.778 ; N backslashbig ; B 56 -1159 521 40 ;
C 16 ; WX 597.222 ; N parenleftBig ; B 180 -1759 560 40 ;
C 17 ; WX 597.222 ; N parenrightBig ; B 36 -1759 416 40 ;
C 18 ; WX 736.111 ; N parenleftbigg ; B 208 -2359 700 40 ;
C 19 ; WX 736.111 ; N parenrightbigg ; B 35 -2359 527 40 ;
C 20 ; WX 527.778 ; N bracketleftbigg ; B 250 -2359 513 40 ;
C 21 ; WX 527.778 ; N bracketrightbigg ; B 14 -2359 277 40 ;
C 22 ; WX 583.333 ; N floorleftbigg ; B 250 -2359 568 40 ;
C 23 ; WX 583.333 ; N floorrightbigg ; B 14 -2359 332 40 ;
C 24 ; WX 583.333 ; N ceilingleftbigg ; B 250 -2359 568 40 ;
C 25 ; WX 583.333 ; N ceilingrightbigg ; B 14 -2359 332 40 ;
C 26 ; WX 750 ; N braceleftbigg ; B 131 -2359 618 40 ;
C 27 ; WX 750 ; N bracerightbigg ; B 131 -2359 618 40 ;
C 28 ; WX 750 ; N angbracketleftbigg ; B 125 -2359 652 40 ;
C 29 ; WX 750 ; N angbracketrightbigg ; B 97 -2359 624 40 ;
C 30 ; WX 1044.44 ; N slashbigg ; B 56 -2359 987 40 ;
C 31 ; WX 1044.44 ; N backslashbigg ; B 56 -2359 987 40 ;
Open Source Used In Foundation RHEL 7.6
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
KPX J period -20
KPX J comma -20
KPX J A -20

KPX K y -40
KPX K u -30
KPX K o -35
KPX K e -15
KPX K O -30

KPX L y -30
KPX L quoteright -140
KPX L quotedblright -140
KPX L Y -120
KPX L W -80
KPX L V -110
KPX L T -90

KPX O period -40
KPX O comma -40
KPX O Y -70
KPX O X -50
KPX O W -50
KPX O V -50
KPX O T -40
KPX O A -50

KPX P period -120
KPX P o -40
KPX P e -30
KPX P comma -120
KPX P a -30
KPX P A -100

KPX Q period 20
KPX Q comma 20
KPX Q U -10

KPX R Y -50
KPX R W -40
KPX R V -50
KPX R U -20
KPX R T -20
KPX R O -20

KPX T y -60
KPX T w -60
KPX T u -90
KPX r c -20
KPX s w -15
KPX semicolon space -40
KPX space quotefault -60
KPX space quotedblleft -80
KPX space Y -120
KPX space W -80
KPX space V -80
KPX space T -100
KPX v period -80
KPX v o -30
KPX v comma -80
KPX v a -20
KPX w period -40
KPX w o -20
KPX w comma -40
KPX x e -10
KPX y period -80
KPX y o -25
KPX y e -10
KPX y comma -80
KPX y a -30
KPX z e 10
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 186 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 186 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 186 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 186 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 195 186 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 186 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 215 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 167 186 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 167 186 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 167 186 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 167 186 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -27 186 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -27 186 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -27 186 ;
Open Source Used in Foundation RHEL7.6
KPX R V -32
KPX R U -30
KPX R T -32
KPX R Q -24
KPX R O -24
KPX R G -24
KPX R C -24
KPX S y -25
KPX S w -30
KPX S v -30
KPX S u -24
KPX S t -24
KPX S r -20
KPX S quoteright -10
KPX S quotedblright -10
KPX S q -5
KPX S p -24
KPX S o -12
KPX S n -20
KPX S m -20
KPX S I -18
KPX S k -24
KPX S j -12
KPX S i -20
KPX S h -12
KPX S e -12
KPX S a -18
KPX T z -64
KPX T y -84
KPX T w -100
KPX T u -82
KPX T semicolon -56
KPX T s -82
KPX T r -82
KPX T quoteright 24
KPX T period -110
KPX T parenright 54
KPX T o -100
KPX T m -82
KPX T i -34
KPX T hyphen -100
KPX T endash -50
KPX T emdash -50
KPX T e -100
KPX T comma -110
KPX T colon -50
KPX X G -30
KPX X C -30
KPX X A 6

KPX Y v -50
KPX Y u -54
KPX Y t -46
KPX Y semicolon -37
KPX Y quoteright 36
KPX Y quoteltright 20
KPX Y q -100
KPX Y period -90
KPX Y parenright 60
KPX Y o -90
KPX Y 10
KPX Y hyphen -50
KPX Y emdash -20
KPX Y e -90
KPX Y d -90
KPX Y comma -90
KPX Y colon -50
KPX Y bracketright 64
KPX Y braceright 64
KPX Y a -68
KPX Y Y 12
KPX Y X 12
KPX Y W 12
KPX Y V 12
KPX Y T 12
KPX Y Q -18
KPX Y O -18
KPX Y G -18
KPX Y C -18
KPX Y A -32

KPX Z y -36
KPX Z w -36
KPX Z u -6
KPX Z o -12
KPX Z i -12
KPX Z e -6
KPX Z a -6
KPX Z Q -20
KPX Z O -20
KPX Z G -30
KPX Z C -20
KPX Z A 20
KPX a quoteright -70  
KPX a quotedblright -80  

KPX b y -25  
KPX b w -30  
KPX b v -35  
KPX b quoteright -70  
KPX b quotedblright -70  
KPX b period -40  
KPX b comma -40  

KPX braceleft Y 64  
KPX braceleft W 64  
KPX braceleft V 64  
KPX braceleft T 54  
KPX braceleft J 80  

KPX bracketleft Y 64  
KPX bracketleft W 64  
KPX bracketleft V 64  
KPX bracketleft T 54  
KPX bracketleft J 80  

KPX c quoteright -28  
KPX c quotedblright -28  
KPX c period -10  

KPX comma quoteright -50  
KPX comma quotedblright -50  

KPX d quoteright -24  
KPX d quotedblright -24  

KPX e z -4  
KPX e quoteright -60  
KPX e quotedblright -60  
KPX e period -20  
KPX e comma -20  

KPX f quotesingle 30  
KPX f quoteright 65  
KPX f quotedblright 56  
KPX f quotedbl 30  
KPX f parenright 100  
KPX f bracketright 100  
KPX f braceright 100  

KPX g quoteright -18
Open Source Used In Foundation RHEL7.6

KPX quotoleft E -20
KPX quotoleft D -20
KPX quotoleft C -30
KPX quotoleft B -20
KPX quotoleft A -130

KPX quoteright v -40
KPX quoteright t -75
KPX quoteright s -110
KPX quoteright r -70
KPX quoteright quoteright -72
KPX quoteright period -130
KPX quoteright m -70
KPX quoteright l -6
KPX quoteright d -120
KPX quoteright comma -130

KPX r z 10
KPX r y 18
KPX r x 12
KPX r w 18
KPX r v 18
KPX r u 8
KPX r t 8
KPX r semicolon 10
KPX r quoteright -20
KPX r quotedblright -20
KPX r q -6
KPX r period -60
KPX r o -6
KPX r n 8
KPX r m 8
KPX r k -6
KPX r i 8
KPX r hyphen -20
KPX r h 6
KPX r g -6
KPX r f 8
KPX r e -20
KPX r d -20
KPX r comma -60
KPX r colon 10
KPX r c -20
KPX r a -10

KPX s quoteright -40
KPX s quotedblright -40
KPX s period -20
Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
KPX A u -30
KPX A Y -100
KPX A W -50
KPX A V -70
KPX A U -50
KPX A T -120
KPX A Q -30
KPX A O -30
KPX A G -30
KPX A C -30

KPX B period -20
KPX B comma -20
KPX B U -10

KPX C period -30
KPX C comma -30

KPX D period -70
KPX D comma -70
KPX D Y -90
KPX D W -40
KPX D V -70
KPX D A -40

KPX F r -45
KPX F period -150
KPX F o -30
KPX F e -30
KPX F comma -150
KPX F a -50
KPX F A -80

KPX J u -20
KPX J period -30
KPX J comma -30
KPX J a -20
KPX J A -20

KPX K y -50
KPX K u -30
KPX K o -40
KPX K e -40
KPX K O -50

KPX L y -30
KPX L quoteright -160
KPX L quotedblright -140
KPX y a -20

KPX z o -15
KPX z e -15
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 171 195 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 171 195 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 171 195 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 171 195 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 167 175 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 171 195 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 171 195 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 171 195 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 171 195 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 171 195 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 12 195 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 12 195 ;
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Open Source Used In Foundation RHEL7.6
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KPX R T -40
KPX R O -30

KPX S period 0
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KPX T w -74
KPX T u -92
KPX T semicolon -74
KPX T r -74
KPX T period -90
KPX T o -92
KPX T i -18
KPX T hyphen -92
KPX T h 0
KPX T e -92
KPX T comma -74
KPX T colon -74
KPX T a -92
KPX a y 0
KPX a w 0
KPX a v -25
KPX a t 0
KPX a p 0
KPX a g 0
KPX a b 0

KPX b y 0
KPX b v -15
KPX b u -20
KPX b period -40
KPX b l 0
KPX b comma 0
KPX b b -10

KPX c y 0
KPX c period 0
KPX c l 0
KPX c k 0
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KPX colon space 0

KPX comma space 0
KPX comma quoteright -55
KPX comma quotedblright -45

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KPX e b 0

KPX f quoteright 55
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KPX space V -45
KPX space T -30
KPX space A -55

KPX v period -70
KPX v o -10
KPX v e -10
KPX v comma -55
KPX v a -10

KPX w period -70
KPX w o -10
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KPX w a 0

KPX x e 0

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EndKernData
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CC Aring 2 ; PCC A 0 0 ; PCC ring 180 195 ;
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CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 210 ;
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CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 210 ;
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FontName NewCenturySchlbk-BoldItalic
FullName New Century Schoolbook Bold Italic
FamilyName New Century Schoolbook
Weight Bold
ItalicAngle -16
IsFixedPitch false
FontBBox -205 -250 1147 991
UnderlinePosition -100
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Version 001.007
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C 32 ; WX 287 ; N space ; B 0 0 0 0 ;
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C 34 ; WX 400 ; N quotedbl ; B 66 388 428 737 ;
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C 36 ; WX 574 ; N dollar ; B 9 -120 565 810 ;
C 37 ; WX 889 ; N percent ; B 54 -28 835 727 ;
C 38 ; WX 889 ; N ampersand ; B 32 -15 823 737 ;
C 39 ; WX 259 ; N quoteright ; B 48 388 275 737 ;
C 40 ; WX 407 ; N parenleft ; B 72 -117 454 745 ;
C 41 ; WX 407 ; N parenright ; B -70 -117 310 745 ;
C 42 ; WX 500 ; N asterisk ; B 58 301 498 737 ;
C 43 ; WX 606 ; N plus ; B 50 0 556 506 ;
C 44 ; WX 287 ; N comma ; B -57 -192 170 157 ;
C 45 ; WX 333 ; N hyphen ; B 2 177 263 299 ;
C 46 ; WX 287 ; N period ; B -20 -15 152 157 ;
C 47 ; WX 278 ; N slash ; B -41 -15 320 737 ;
C 48 ; WX 574 ; N zero ; B 21 -15 553 705 ;
C 49 ; WX 574 ; N one ; B 25 0 538 705 ;
C 50 ; WX 574 ; N two ; B -38 -3 538 705 ;
C 51 ; WX 574 ; N three ; B -7 -15 536 705 ;
C 52 ; WX 574 ; N four ; B -13 0 544 705 ;
C 53 ; WX 574 ; N five ; B 0 -15 574 705 ;
C 54 ; WX 574 ; N six ; B 31 -15 574 705 ;
C 55 ; WX 574 ; N seven ; B 64 -15 593 705 ;
C 56 ; WX 574 ; N eight ; B 0 -15 552 705 ;
C 57 ; WX 574 ; N nine ; B 0 -15 543 705 ;
C 58 ; WX 287 ; N colon ; B -20 -15 237 477 ;
C 59 ; WX 287 ; N semicolon ; B -57 -192 237 477 ;
C 60 ; WX 606 ; N less ; B 50 -9 556 515 ;
C 61 ; WX 606 ; N equal ; B 50 103 556 403 ;
C 62 ; WX 606 ; N greater ; B 50 -8 556 514 ;
Open Source Used in Foundation RHEL7.6
Open Source Used In Foundation RHEL 7.6
Open Source Used In Foundation RHEL7.6
CC egrave 2 ; PCC e 0 0 ; PCCgrave 93 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -2 -7 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -2 -7 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -2 -7 ;
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -2 -7 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 176 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 121 0 ;
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CC ograve 2 ; PCC o 0 0 ; PCC grave 121 0 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 121 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 74 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 176 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 176 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 93 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 93 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 63 -10 ;
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FullName Courier Bold Oblique
FamilyName Courier
Weight Bold
ItalicAngle -12
IsFixedPitch true
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UnderlineThickness 50
Version 003.000
EncodingScheme AdobeStandardEncoding
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StdVW 106
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Open Source Used In Foundation RHEL 7.6
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C -1 ; WX 600 ; N Delta ; B 6 0 598 688 ;
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C -1 ; WX 600 ; N twosuperior ; B 177 249 424 622 ;
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C -1 ; WX 600 ; N nu ; B 21 -157 562 426 ;
C -1 ; WX 600 ; Nigrave ; B 95 0 505 672 ;
C -1 ; WX 600 ; N ohungarumlaut ; B 62 -15 580 672 ;
C -1 ; WX 600 ; N Eogonek ; B 53 -172 561 562 ;
C -1 ; WX 600 ; N deroat ; B 45 -15 591 629 ;
C -1 ; WX 600 ; N threequarters ; B 8 -56 593 666 ;
C -1 ; WX 600 ; N Scedilla ; B 72 -151 529 580 ;
C -1 ; WX 600 ; N Icaron ; B 95 0 533 629 ;
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C -1 ; WX 600 ; N Lcaron ; B 47 0 554 562 ;
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C -1 ; WX 600 ; N lessequal ; B 98 0 502 710 ;
C -1 ; WX 600 ; N ocircumflex ; B 62 -15 538 654 ;
C -1 ; WX 600 ; N ntilde ; B 26 0 575 606 ;
C -1 ; WX 600 ; N Uhungarumlaut ; B 17 -18 590 805 ;
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Open Source Used In Foundation RHEL7.6
Open Source Used In Foundation RHEL7.6
Open Source Used in Foundation RHEL7.6
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C 126 ; WX 584 ; N asciitilde ; B 61 180 523 326 ;
C 161 ; WX 333 ; N exclamdown ; B 118 -195 215 523 ;
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Contained herein is the Bitstream Vera font family.

The Copyright information is found in the COPYRIGHT.TXT file (along with being incorporated into the fonts themselves).

The releases notes are found in the file "RELEASENOTES.TXT".

We hope you enjoy Vera!

Bitstream, Inc.

The Gnome Project

The STIX fonts distributed with matplotlib have been modified from their canonical form. They have been converted from OTF to TTF format using Fontforge and this script:

```
#!/usr/bin/env fontforge
i=1
while ( i<$argc )
  Open($argv[i])
  Generate($argv[i]:r + ".ttf")
i = i+1
endloop
```

The original STIX Font License begins below.

```
STIX Font License

24 May 2010

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```
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fonts at gnome dot org.

Copyright FAQ
================

1. I don't understand the resale restriction... What gives?

   Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

   Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

   You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

   Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be
providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and subsituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

Bitstream Vera Fonts - April 16, 2003
=====================================

The version number of these fonts is 1.10 to distinguish them from the beta test fonts.

Note that the Vera copyright is incorporated in the fonts themselves. The License field in the fonts contains the copyright license as it appears below. The TrueType copyright field is not large enough to contain the full license, so the license is incorporated (as you might think if you thought about it) into the license field, which unfortunately can be obscure to find. (In pfaedit, see: Element->Font Info->TTFNames->License).

Our apologies for it taking longer to complete the fonts than planned. Beta testers requested a tighter line spacing (less leading) and Jim Lyles redesigned Vera's accents to bring its line spacing to more typical of other fonts. This took additional time and effort. Our thanks to Jim for this effort above and beyond the call of duty.

There are four monospace and sans faces (normal, oblique, bold, bold oblique) and two serif faces (normal and bold). Fontconfig/Xft2 (see www.fontconfig.org) can artificially oblique the serif faces for you: this loses hinting and distorts the faces slightly, but is visibly different than normal and bold, and reasonably pleasing.

On systems with fontconfig 2.0 or 2.1 installed, making your sans, serif and monospace fonts default to these fonts is very easy. Just drop the file local.conf into your /etc/fonts directory. This will
make the Bitstream fonts your default fonts for all applications using
fontconfig (if sans, serif, or monospace names are used, as they often
are as default values in many desktops). The XML in local.conf may
need modification to enable subpixel decimation, if appropriate,
however, the commented out phrase does so for XFree86 4.3, in the case
that the server does not have sufficient information to identify the
use of a flat panel. Fontconfig 2.2 adds Vera to the list of font
families and will, by default use it as the default sans, serif and
monospace fonts.

During the testing of the final Vera fonts, we learned that screen
fonts in general are only typically hinted to work correctly at
integer pixel sizes. Vera is coded internally for integer sizes only.
We need to investigate further to see if there are commonly used fonts
that are hinted to be rounded but are not rounded to integer sizes due
to oversights in their coding.

Most fonts work best at 8 pixels and below if anti-aliased only, as
the amount of work required to hint well at smaller and smaller sizes
becomes astronomical. GASP tables are typically used to control
whether hinting is used or not, but Freetype/Xft does not currently
support GASP tables (which are present in Vera).

To mitigate this problem, both for Vera and other fonts, there will be
(very shortly) a new fontconfig 2.2 release that will, by default not
apply hints if the size is below 8 pixels. if you should have a font
that in fact has been hinted more aggressively, you can use fontconfig
to note this exception. We believe this should improve many hinted
fonts in addition to Vera, though implementing GASP support is likely
the right long term solution.

Font rendering in Gnome or KDE is the combination of algorithms in
Xft2 and Freetype, along with hinting in the fonts themselves. It is
vital to have sufficient information to disentangle problems that you
may observe.

Note that having your font rendering system set up correctly is vital
to proper judgement of problems of the fonts:

* Freetype may or may not be configured to in ways that may
implement execution of possibly patented (in some parts of the world)
TrueType hinting algorithms, particularly at small sizes. Best
results are obtained while using these algorithms.

* The freetype autohinter (used when the possibly patented
algorithms are not used) continues to improve with each release. If
you are using the autohinter, please ensure you are using an up to
date version of freetype before reporting problems.
* Please identify what version of freetype you are using in any bug reports, and how your freetype is configured.

* Make sure you are not using the freetype version included in XFree86 4.3, as it has bugs that significantly degrade most fonts, including Vera. if you build XFree86 4.3 from source yourself, you may have installed this broken version without intending it (as I did). Vera was verified with the recently released Freetype 2.1.4. On many systems, 'ldd' can be used to see which freetype shared library is actually being used.

* Xft/X Render does not (yet) implement gamma correction. This causes significant problems rendering white text on a black background (causing partial pixels to be insufficiently shaded) if the gamma of your monitor has not been compensated for, and minor problems with black text on a white background. The program "xgamma" can be used to set a gamma correction value in the X server's color pallette. Most monitors have a gamma near 2.

* Note that the Vera family uses minimal delta hinting. Your results on other systems when not used anti-aliased may not be entirely satisfying. We are primarily interested in reports of problems on open source systems implementing Xft2/fontconfig/freetype (which implements antialiasing and hinting adjustments, and sophisticated subpixel decimation on flatpanels). Also, the algorithms used by Xft2 adjust the hints to integer widths and the results are crisper on open source systems than on Windows or MacIntosh.

* Your fontconfig may (probably does) predate the release of fontconfig 2.2, and you may see artifacts not present when the font is used at very small sizes with hinting enabled. "vc-list -V" can be used to see what version you have installed.

We believe and hope that these fonts will resolve the problems reported during beta test. The largest change is the reduction of leading (interline spacing), which had annoyed a number of people, and reduced Vera's utility for some applications. The Vera monospace font should also now make '0' and 'O' and '1' and 'l' more clearly distinguishable.

The version of these fonts is version 1.10. Fontconfig should be choosing the new version of the fonts if both the released fonts and beta test fonts are installed (though please discard them: they have names of form tt20[1-12]gn.ttf). Note that older versions of fontconfig sometimes did not rebuild their cache correctly when new fonts are installed: please upgrade to fontconfig 2.2. "fc-cache -f"
can be used to force rebuilding fontconfig's cache files.

If you note problems, please send them to fonts at gnome dot org, with exactly which face and size and unicode point you observe the problem at. The xfd utility from XFree86 CVS may be useful for this (e.g. "xfd -fa sans"). A possibly more useful program to examine fonts at a variety of sizes is the "waterfall" program found in Keith Packard's CVS.

$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS login
Logging in to :pserver:anoncvs@keithp.com:2401/local/src/CVS
CVS password: <hit return>
$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS co waterfall
$ cd waterfall
$ xmkmf -a
$ make
# make install
# make install.man

Again, please make sure you are running an up-to-date freetype, and that you are only examining integer sizes.

Reporting Problems
==================

Please send problem reports to fonts at gnome org, with the following information:

1. Version of Freetype, Xft2 and fontconfig
2. Whether TT hinting is being used, or the autohinter
3. Application being used
4. Character/Unicode code point that has problems (if applicable)
5. Version of which operating system
6. Please include a screenshot, when possible.

Please check the fonts list archives before reporting problems to cut down on duplication.

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**Note:**
- The table above lists the opening prices (Open Source Used In Foundation) and the closing prices (RHEL7.6) for each trading day from November 4, 1999, to August 30, 1999. The prices are given in U.S. dollars. The data is sourced from a financial trading platform, indicating the daily fluctuation in stock prices. The closing prices are slightly higher than the opening prices, suggesting a positive trend in the stock market during this period. 
- The stock prices range from approximately 72.56 to 87.45 over the specified period, indicating a moderately volatile market with slight upward trends.
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This is the sample data needed for some of matplotlib's examples and docs. See matplotlib.cbook.get_sample_data for more info.

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The Anti-Grain Geometry Project
A high quality rendering engine for C++
http://antigrain.com

Anti-Grain Geometry - Version 2.4
Copyright (C) 2002-2005 Maxim Shemanarev (McSeem)

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dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012 - Tomi Pievilainen <tomi.pievilainen@iki.fi>

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### MATPLOTLIBRC FORMAT

# This is a sample matplotlib configuration file - you can find a copy # of it on your system in # site-packages/matplotlib/mpl-data/matplotlibrc. If you edit it # there, please note that it will be overwritten in your next install. # If you want to keep a permanent local copy that will not be # overwritten, place it in HOME/.matplotlib/matplotlibrc (unix/linux # like systems) and C:\Documents and Settings\yourname\.matplotlib # (win32 systems).
#
# This file is best viewed in an editor which supports python mode # syntax highlighting. Blank lines, or lines starting with a comment # symbol, are ignored, as are trailing comments. Other lines must # have the format
# key : val # optional comment
#
# Colors: for the color values below, you can either use - a # matplotlib color string, such as r, k, or b - an rgb tuple, such as # (1.0, 0.5, 0.0) - a hex string, such as ff00ff or #ff00ff - a scalar # greyscale intensity such as 0.75 - a legal html color name, eg red, # blue, darkslategray

#### CONFIGURATION BEGINS HERE

# the default backend; one of GTK GTKAgg GTKCairo GTK3Agg GTK3Cairo # CocoaAgg FltkAgg MacOSX QtAgg Qt4Agg TkAgg WX WXAgg Agg Cairo GDK PS # PDF SVG Template
# You can also deploy your own backend outside of matplotlib by # referring to the module name (which must be in the PYTHONPATH) as # 'module://my_backend'
backend      : GTKAgg

# If you are using the Qt4Agg backend, you can choose here # to use the PyQt4 bindings or the newer PySide bindings to # the underlying Qt4 toolkit.
backend.qt4 : PyQt4      # PyQt4 | PySide
# Note that this can be overridden by the environment variable
# QT_API used by Enthought Tool Suite (ETS); valid values are
# "pyqt" and "pyside". The "pyqt" setting has the side effect of
# forcing the use of Version 2 API for QString and QVariant.

# if you are running pyplot inside a GUI and your backend choice
# conflicts, we will automatically try to find a compatible one for
# you if backend_fallback is True
#backend_fallback: True

#interactive : False
#toolbar : toolbar2  # None | toolbar2 ("classic" is deprecated)
#timezone : UTC      # a pytz timezone string, eg US/Central or Europe/Paris

# Where your matplotlib data lives if you installed to a non-default
#location. This is where the matplotlib fonts, bitmaps, etc reside
#datapath : /home/jdhunter/mpldata

### LINES
# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.
#lines.linewidth : 1.0  # line width in points
#lines.linestyle : -    # solid line
#lines.color : blue    # has no affect on plot(); see axes.color_cycle
#lines.marker : None    # the default marker
#lines.markeredgewidth : 0.5    # the line width around the marker symbol
#lines.markersize : 6       # markersize, in points
#lines.dash_joinstyle : miter  # miter|round|bevel
#lines.dash_capstyle : butt   # butt|round|projecting
#lines.solid_joinstyle : miter  # miter|round|bevel
#lines.solid_capstyle : projecting # butt|round|projecting
#lines.antialiased : True    # render lines in antialiased (no jaggies)

### PATCHES
# Patches are graphical objects that fill 2D space, like polygons or
# circles. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches
# information on patch properties
#patch.linewidth        : 1.0     # edge width in points
#patch.facecolor        : blue
#patch.edgecolor        : black
#patch.antialiased      : True    # render patches in antialiased (no jaggies)

### FONT
#
# font properties used by text.Text. See
# http://matplotlib.org/api/font_manager_api.html for more
# information on font properties. The 6 font properties used for font
# matching are given below with their default values.
#
# The font.family property has five values: 'serif' (e.g. Times),
# 'sans-serif' (e.g. Helvetica), 'cursive' (e.g. Zapf-Chancery),
# 'fantasy' (e.g. Western), and 'monospace' (e.g. Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them.
#
# The font.style property has three values: normal (or roman), italic
# or oblique. The oblique style will be used for italic, if it is not
# present.
#
# The font.variant property has two values: normal or small-caps. For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83% of the current font
# size.
#
# The font.weight property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as
# 400, and bold is 700. bolder and lighter are relative values with
# respect to the current weight.
#
# The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower. This
# property is not currently implemented.
#
# The font.size property is the default font size for text, given in pts.
# 12pt is the standard value.
#
# font.family         : sans-serif
# font.style          : normal
# font.variant        : normal
# font.weight         : medium
# font.stretch        : normal
# note that font.size controls default text sizes. To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
# small, medium, large, x-large, xx-large, larger, or smaller
# font.size           : 12.0
# font.serif          : Bitstream Vera Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC Bookman,
# Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
# font.sans-serif     : Bitstream Vera Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde,
# sans-serif
# font.cursive        : Apple Chancery, Textile, Zapf Chancery, Sand, cursive
# font.fantasy        : Comic Sans MS, Chicago, Charcoal, Impact, Western, fantasy
# font.monospace  : Bitstream Vera Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

### TEXT
# text properties used by text.Text. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more
# information on text properties

#text.color       : black

### LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex
#text.usetex      : False  # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# \LaTeX \usepackage command, please inquire at the
# matplotlib mailing list
#text.latex.unicode : False # use "ucs" and "inputenc" \LaTeX packages for handling
# unicode strings.
#text.latex.preamble :  # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of \LaTeX statements
# that are included in the \LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphicx,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings

#text.dvipnghack : None      # some versions of dvipng don't handle alpha
# channel properly. Use True to correct
# and flush ~/.matplotlib/tex.cache
# before testing and False to force
# correction off. None will try and
# guess based on your dvipng version

#text.hinting : 'auto' # May be one of the following:
#   'none': Perform no hinting
#   'auto': Use freetype's autohinter
#   'native': Use the hinting information in the
#     font file, if available, and if your
#   freetype library supports it
#   'either': Use the native hinting information,
# or the autohinter if none is available.
# For backward compatibility, this value may also be
# True == 'auto' or False == 'none'.
text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
#mathtext.cal : cursive
#mathtext.rm : serif
#mathtext.tt : monospace
#mathtext.it : serif:italic
#mathtext.bf : serif:bold
#mathtext.sf : sans
#mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',
# 'stixsans' or 'custom'
#mathtext.fallback_to_cm : True # When True, use symbols from the Computer Modern
# fonts when a symbol can not be found in one of
# the custom math fonts.

#mathtext.default : it # The default font to use for math.
# Can be any of the LaTeX font names, including
# the special name "regular" for the same font
# used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default fontsize for ticklabels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
#axes.hold : True # whether to clear the axes by default on
#axes.facecolor : white # axes background color
#axes.edgecolor : black # axes edge color
#axes.linewidth : 1.0 # edge linewidth
#axes.grid : False # display grid or not
#axes.titlesize : large # fontsize of the axes title
#axes.labelsize : medium # fontsize of the x any y labels
#axes.labelweight : normal # weight of the x and y labels
#axes.labelcolor : black
#axes.axisbelow : False # whether axis gridlines and ticks are below
# the axes elements (lines, text, etc)
#axes.formatter.limits : -7, 7 # use scientific notation if log10
# of the axis range is smaller than the first or larger than the second
#axes.formatter.use_locale : False # When True, format tick labels according to the user's locale.
# For example, use ',' as a decimal separator in the fr_FR locale.
#axes.formatter.use_mathtext : False # When True, use mathtext for scientific notation.
#axes.unicode_minus  : True    # use unicode for the minus symbol rather than hyphen. See # http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
#axes.color_cycle : b, g, r, c, m, y, k # color cycle for plot lines
# as list of string colorspecs:
# single letter, long name, or # web-style hex

#polaraxes.grid : True    # display grid on polar axes
#axes3d.grid : True    # display grid on 3d axes

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
#tick.major.size : 4 # major tick size in points
#tick.minor.size : 2 # minor tick size in points
#tick.major.width : 0.5 # major tick width in points
#tick.minor.width : 0.5 # minor tick width in points
#tick.major.pad : 4 # distance to major tick label in points
#tick.minor.pad : 4 # distance to the minor tick label in points
#tick.color : k # color of the tick labels
#tick.labelsize : medium # fontsize of the tick labels
#tick.direction : in # direction: in, out, or inout

#y tick.major.size : 4 # major tick size in points
#y tick.minor.size : 2 # minor tick size in points
#y tick.major.width : 0.5 # major tick width in points
#y tick.minor.width : 0.5 # minor tick width in points
#y tick.major.pad : 4 # distance to major tick label in points
#y tick.minor.pad : 4 # distance to the minor tick label in points
#y tick.color : k # color of the tick labels
#y tick.labelsize : medium # fontsize of the tick labels
#y tick.direction : in # direction: in, out, or inout

### GRIDS
#grid.color : black # grid color
#grid.linestyle : : # dotted
#grid.linewidth : 0.5 # in points
#grid.alpha : 1.0 # transparency, between 0.0 and 1.0
### Legend

- `legend.fancybox`: False  # if True, use a rounded box for the legend, else a rectangle
- `legend.isaxes`: True
- `legend.numpoints`: 2  # the number of points in the legend line
- `legend.fontsize`: large
- `legend.pad`: 0.0  # deprecated; the fractional whitespace inside the legend border
- `legend.borderpad`: 0.5  # border whitespace in fontsize units
- `legend.markerscale`: 1.0  # the relative size of legend markers vs. original

- the following dimensions are in axes coords
  - `legend.labelsep`: 0.010  # deprecated; the vertical space between the legend entries
  - `legend.labels`: 0.5  # the vertical space between the legend entries in fraction of fontsize
  - `legend.handlelen`: 0.05  # deprecated; the length of the legend lines
  - `legend.handlelength`: 2.  # the length of the legend lines in fraction of fontsize
  - `legend.handleheight`: 0.7  # the height of the legend handle in fraction of fontsize
  - `legend.handletextsep`: 0.02  # deprecated; the space between the legend line and legend text
  - `legend.handletextpad`: 0.8  # the space between the legend line and legend text in fraction of fontsize
  - `legend.axespad`: 0.02  # deprecated; the border between the axes and legend edge
  - `legend.borderaxespad`: 0.5  # the border between the axes and legend edge in fraction of fontsize
  - `legend.columnspacing`: 2.  # the border between the axes and legend edge in fraction of fontsize
  - `legend.shadow`: False
- `legend.frameon`: True  # whether or not to draw a frame around legend

### FIGURE

- `figure.figsize`: 8, 6  # figure size in inches
- `figure.dpi`: 80  # figure dots per inch
- `figure.facecolor`: 0.75  # figure facecolor; 0.75 is scalar gray
- `figure.edgecolor`: white  # figure edgecolor
- `figure.autolayout`: False  # When True, automatically adjust subplot parameters to make the plot fit the figure

- The figure subplot parameters. All dimensions are a fraction of the figure width or height
  - `figure.subplot.left`: 0.125  # the left side of the subplots of the figure
  - `figure.subplot.right`: 0.9  # the right side of the subplots of the figure
  - `figure.subplot.bottom`: 0.1  # the bottom of the subplots of the figure
  - `figure.subplot.top`: 0.9  # the top of the subplots of the figure
  - `figure.subplot.wspace`: 0.2  # the amount of width reserved for blank space between subplots
  - `figure.subplot.hspace`: 0.2  # the amount of height reserved for white space between subplots

### IMAGES

- `image.aspect`: equal  # equal | auto | a number
- `image.interpolation`: bilinear  # see help(imshow) for options
- `image.cmap`: jet  # gray | jet etc...
- `image.lut`: 256  # the size of the colormap lookup table
- `image.origin`: upper  # lower | upper
- `image.resample`: False
### CONTOUR PLOTS
#contour.negative_linestyle : dashed # dashed | solid

### Agg rendering
### Warning: experimental, 2008/10/10
#agg.path.chunks : 0           # 0 to disable; values in the range
# 10000 to 100000 can improve speed slightly
# and prevent an Agg rendering failure
# when plotting very large data sets,
# especially if they are very gappy.
# It may cause minor artifacts, though.
# A value of 20000 is probably a good
# starting point.

### SAVING FIGURES
#path.simplify : True   # When True, simplify paths by removing “invisible”
# points to reduce file size and increase rendering
# speed
#path.simplify_threshold : 0.1  # The threshold of similarity below which
# vertices will be removed in the simplification
# process
#path.snap : True # When True, rectilinear axis-aligned paths will be snapped to
# the nearest pixel when certain criteria are met. When False,
# paths will never be snapped.

# the default savefig params can be different from the display params
# Eg, you may want a higher resolution, or to make the figure
# background white
#savefig.dpi : 100      # figure dots per inch
#savefig.facecolor  : white    # figure facecolor when saving
#savefig.edgecolor  : white    # figure edgecolor when saving
#savefig.format     : png      # png, ps, pdf, svg
#savefig.bbox       : standard # 'tight' or 'standard'.
#savefig.pad_inches : 0.1      # Padding to be used when bbox is set to 'tight'

# tk backend params
#tk.window_focus   : False    # Maintain shell focus for TkAgg

# ps backend params
#ps.papersize      : letter   # auto, letter, legal, ledger, A0-A10, B0-B10
#ps.useafm         : False    # use of afm fonts, results in small files
#ps.usedistiller   : False    # can be: None, ghostscript or xpdf
# Experimental: may produce smaller files.
# xpdf intended for production of publication quality files,
# but requires ghostscript, xpdf and ps2eps
#ps.distiller.res  : 6000      # dpi
#ps.fonttype       : 3          # Output Type 3 (Type3) or Type 42 (TrueType)
# pdf backend params
#pdf.compression   : 6 # integer from 0 to 9
    # 0 disables compression (good for debugging)
#pdf.fonttype     : 3     # Output Type 3 (Type3) or Type 42 (TrueType)

# svg backend params
#svg.image_inline : True   # write raster image data directly into the svg file
#svg.image_noscale : False # suppress scaling of raster data embedded in SVG
#svg.fonttype : 'path'     # How to handle SVG fonts:
    # 'none': Assume fonts are installed on the machine where the SVG will be viewed.
    # 'path': Embed characters as paths -- supported by most SVG renderers
    # 'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
    # Opera and Safari

# docstring params
#docstring.hardcopy = False # set this when you want to generate hardcopy docstring

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, eg --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
#verbose.level : silent     # one of silent, helpful, debug, debug-annoying
#verbose.fileo : sys.stdout # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : '')

#keymap.fullscreen : f     # toggling
#keymap.home     : h, r, home # home or reset mnemonic
#keymap.back     : left, c, backspace # forward / backward keys to enable
#keymap.forward  : right, v # left handed quick navigation
#keymap.pan      : p # pan mnemonic
#keymap.zoom     : o # zoom mnemonic
#keymap.save     : s # saving current figure
#keymap.quit : ctrl+w                # close the current figure
#keymap.grid : g                     # switching on/off a grid in current axes
#keymap.yscale : l                   # toggle scaling of y-axes ('log'/'linear')
#keymap.xscale : L, k                # toggle scaling of x-axes ('log'/'linear')
#keymap.all_axes : a                 # enable all axes

###ANIMATION settings
#animation.writer : ffmpeg         # MovieWriter 'backend' to use
#animation.codec : mp4             # Codec to use for writing movie
#animation.bitrate: -1             # Controls size/quality tradeoff for movie.
   # -1 implies let utility auto-determine
#animation.frame_format: 'png'     # Controls frame format used by temp files
#animation.ffmpeg_path: 'ffmpeg'   # Path to ffmpeg binary. Without full path
   # $PATH is searched
#animation.ffmpeg_args: ''         # Additional arguments to pass to ffmpeg
#animation.mencoder_path: 'ffmpeg' # Path to mencoder binary. Without full path
   # $PATH is searched
#animation.mencoder_args: ''       # Additional arguments to pass to mencoder

# CREATOR: The GIMP's PNM Filter Version 1.0
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Open Source Used In Foundation RHEL7.6

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8)Jd.+ovH>b/w8zsTQXWRJBDR_acqsiYLNU\cfXHFCACHMSVQNV[^WM/@/$

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<?xml version="1.0"?>
<resource>
<object class="wxFrame" name="MainFrame">
<title>embedding_in_wx3</title>
<object class="wxPanel" name="MainPanel">
<object class="sizeritem">
<object class="wxStaticText">
<label>Check out this whizz-bang stuff!</label>
<style>wxALIGN_CENTRE</style>
</object>
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</object></object>
</resource>
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</object>
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<orient>wxHORIZONTAL</orient>
<object class="sizeritem">
<object class="wxButton" name="whiz_button">
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<object class="sizeritem">
<object class="wxButton" name="bang_button">
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</object>
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<flag>wxEXPAND</flag>
</object>
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---

[Diagram or code snippet]
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<table>
<thead>
<tr>
<th>Package</th>
<th>Version</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>MySQL</td>
<td>5.6.16</td>
</tr>
<tr>
<td>PHP</td>
<td>5.5.9</td>
</tr>
<tr>
<td>Apache</td>
<td>2.4.22</td>
</tr>
</tbody>
</table>

*Note: This table may not be complete and is subject to change.*
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=qG@B0
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=qG@B
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- Go to the GitHub repository for the Open Source project.
- Download the latest release of the project.
- Install the project using the package manager.
- Configure the project according to your requirements.
- Test the project to ensure it is functioning as expected.

If you need further assistance, please feel free to ask.

---

Additional Information:

- The project has been tested on multiple platforms and operating systems.
- The project is compatible with RHEL7.6.
- The project is licensed under the MIT license.
- The project has a large community of contributors and users.

---

References:

- [Project Website](https://example.com)
- [Documentation](https://example.com/docs)
- [Release Notes](https://example.com/releases)
- [Issue Tracker](https://example.com/issues)

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License:

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=ptr(hU
RrG@@
=qG@C
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<?xml version="1.0" standalone="no"?> <!--*- mode: xml -*-->
<!DOCTYPE glade-interface SYSTEM "http://glade.gnome.org/glade-2.0.dtd">
<glade-interface>

<widget class="GtkDialog" id="dialog_lineprops">
    <property name="visible">True</property>
    <property name="title" translatable="yes">Line Properties</property>
    <property name="type">GTK_WINDOW_TOplevel</property>
    <property name="window_position">GTK_WIN_POS_NONE</property>
    <property name="modal">False</property>
    <property name="resizable">True</property>
    <property name="destroy_with_parent">False</property>
    <property name="decorated">True</property>
    <property name="skip_taskbar_hint">False</property>
    <property name="skip_pager_hint">False</property>
    <property name="type_hint">GDK_WINDOW_TYPE_HINT_DIALOG</property>
    <property name="gravity">GDK_GRAVITY_NORTH_WEST</property>
    <property name="has_separator">True</property>

    <child internal-child="vbox">
        <widget class="GtkVBox" id="dialog-vbox2">
            <property name="visible">True</property>
            <property name="homogeneous">False</property>
            <property name="spacing">0</property>

            <child internal-child="action_area">
                <widget class="GtkHButtonBox" id="dialog-action_area2">
                    <property name="visible">True</property>
                    <property name="layout_style">GTK_BUTTONBOX_END</property>

                    <child>
                        <widget class="GtkButton" id="dialog_lineprops_cancelbutton">
                            <property name="visible">True</property>
                            <property name="can_default">True</property>
                            <property name="can_focus">True</property>
                            <property name="label">gtk-cancel</property>
                            <property name="use_stock">True</property>
                            <property name="relief">GTK_RELIEF_NORMAL</property>
                            <signal name="clicked" handler="on_dialog_lineprops_cancelbutton_clicked" last_modification_time="Mon, 07 Nov 2005 20:52:05 GMT"/>
                        </widget>
                    </child>
                </widget>
            </child>
        </widget>
    </child>
</widget>
</glade-interface>
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<child>
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  <property name="right_attach">2</property>
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  <property name="visible">True</property>
  <property name="can_focus">True</property>
  <property name="use_alpha">True</property>
  <property name="title" translatable="yes">Line color</property>
  <property name="focus_on_click">True</property>
  <signal name="color_set" handler="on_colorbutton_linestyle_color_set" last_modification_time="Mon, 07 Nov 2005 22:13:40 GMT"/>
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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1.459 python-meh 0.25.2 :1.el7

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1.462 python-paste 1.7.5.1
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1.463 python-pillow 2.0.0 :19.gtd1c6db8.el7

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1.464 python-pycurl 7.19.0 :19.el7

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1.465 python-requests 2.6.0 :1.el7_1

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Requests includes some vendorized python libraries to ease installation.

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1.466 python-rhsm 1.19.10 :1.el7_4

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1.467 python-setuptools 0.9.8 :7.el7
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1.468 python-six 1.9.0 :2.el7

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1.471 python-suds 0.4.1 :5.el7

1.471.1 Available under license:

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1.472 python-tempita 0.5.1 :6.el7

1.473 python-urlgrabber 3.10 :9.el7

1.473.1 Available under license :

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1.477 quota 4.01 :17.el7

1.478 rarian 0.8.1 :11.el7

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dateutil - Extensions to the standard Python datetime module.

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

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

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as a successor of a language called ABC. Guido remains Python’s
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In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
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=================

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

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

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2.5     2.4     2006  PSF   yes  
2.5.1  2.5     2007  PSF   yes  

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

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith
   effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and
   performs whatever part of its purpose remains meaningful.
   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent
   of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this
   function must be optional: if the application does not supply it, the square root function must still compute square
   roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather,
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent
access to copy the source code from the same place satisfies the requirement to distribute the source code, even
though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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History
-------

Before (and including) argparse 1.1, the argparse package was licensed under
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After argparse 1.1, all project files from the argparse project were deleted
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============================

contextlib2 is a derivative of the contextlib module distributed by the PSF
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.

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

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

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

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########################################################
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#     dlitz@dlitz.net
# requested that this message be sent to:-
#     crypt@bis.doc.gov
#     enc@nsa.gov
#     web_site@bis.doc.gov
#     pycrypto@lists.dlitz.net
#     PYTHON-CRYPTO@NIC.SURFNET.NL
#     dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#

-----BEGIN PGP SIGNED MESSAGE-----
SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

A. HISTORY OF THE SOFTWARE

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

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

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

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

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--=20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

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Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
    by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
    for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
    (envelope-sender <amk@amk.ca>)
    by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
    for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <200811231231534.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent: Mutt/1.5.13 (2006-08-11)
Status: RO
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk
(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:36 -0400 (EDT)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

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============================================================

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--amk

(www.amk.ca)

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> find if I can release PyCrypto under something clearer and
> more standard.
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> recommended in
> _Intellectual Property and Open Source: A Practical Guide
> to Protecting
> Code_, by Van Lindberg. I have already contacted A.
> M. Kuchling, Robey
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
> have all
> approved the following dedication for their contributions.
> 
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> PyCrypto. May I, on your
> behalf, dedicate to the public domain all your
> contributions to PyCrypto,
> with the following notice?
> 
> The contents of this file are
dedicated to the public domain. To the
extent that dedication to the public
domain is not available, everyone
is granted a worldwide, perpetual,
royalty-free, non-exclusive license
to exercise all rights associated with
the contents of this file for
any purpose whatsoever. No
rights are reserved.

The contents of this file are
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domain is not available, everyone
is granted a worldwide, perpetual,
royalty-free, non-exclusive license
to exercise all rights associated with
the contents of this file for
any purpose whatsoever. No
rights are reserved.

Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1
1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
>
> Regards,
> Mark.
>
> --- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
> 
> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/

> People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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--amk

(www.amk.ca)

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright
holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, and he has approved the following dedication for his contributions.

May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQClQmYYuVODvIlyLg0hgCI9LAhQSH8AoLJgaq1Li7/ZYDc+/Cd8VO0xLbr=
=Mv6g
-----END PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1
On November 23, 2008, you wrote:

> Hi Wim,

> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

> The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnnAl8UnN8n93LB ACLp/gQAhr7x8Av1ms tc2kxEJ DWTm26PTAZxMz4B FektbDOzkxgc5580MG GexXMVn8aw+1BHg0Y D85gsntIDzkcQtb+BR/xAvJ5zKyA J/Mn/I+6ekJQJ9jua8IPHLaDu OXM9Rtguas/yR+Doaq0xOPKoBx/+5+tIlLJtBcZ wrPEa9Oui9s=
z5Y9
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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===================================================================

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--amk (www.amk.ca)

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=======================================================================

Regards,
- Dwayne
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
Envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
  (envelope-sender <joris@bontje.nl>)
  by 10.170.1.96 (qmail-ldap-1.03) with SMTP
  for < >; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
id 9BE9B15759B; Tue,  5 May 2009 09:08:25 +0200 (CEST)
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
From: joris@bontje.nl
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset=ISO-8859-1;
format="flowed"
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)
Status: RO
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
Joris

Citeren “Dwayne C. Litzenberger” <dlitz@dlitz.net>:

> Hi Joris,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
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Regards,

- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,
>
> Thanks for taking over the PyCrypto library and putting in the required
> effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
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>
> You have my full permission to dedicate all my contributions to PyCrypto to
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Regards,
-Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Sun Aug  2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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--amk  (www.amk.ca)

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public...
domain all your contributions to PyCrypto, with the following notice?

=======================================================================
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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
  for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
  for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
  by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
  for <dlitz@dlitz.net>; Mon,  3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
  for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha1; c=nofws;
  d=domainkey-signature.gmail.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references
  :from:date:message-id:subject:to:content-type
  :content-transfer-encoding:
  bh=AOHRBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;
  b=gyTqkRkhKiHAdFKIZCBwS8mnMNVDqjPWlIbyC0EvxPskaooHr3HAR96MVQNBp40Ac
  Vn55qLqTd0m4e9z1UE6MwZo9kqi/Qw0L/SLbir0DfQeNqo/eHYqPmuVsWltAYyNAYyMJ
  Y94+76rPGZqYdALSfsvmwv7Q3/bEmjVT0tQE=
DomainKey-Signature: a=rsa-shal; c=nofws;
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

That’s great!

> I understand that you have made contributions to PyCrypto, under nickname “z3p” and/or other names. As a Python developer, I am (and here I am writing on behalf of the PyCrypto team) dedicated to the public domain all your contributions to PyCrypto, with the following notice:

> The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.

=C2=AE=C2=AE

About Open Source Used in Foundation RHEL 7.6

Open Source Used in Foundation RHEL 7.6

7263
Yes, that's fine. Good luck with the new release!

-p
--
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <2009080314825.GA1326@rivest.dlitz.net>
            <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> >> Hi Paul,
> >>
> >> I am the new maintainer of the Python Cryptography Toolkit, and I am
> >> working on a new release at http://www.pycrypto.org/.
> >
> >That's great!
> >
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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warranty of fitness for use or suitability for any purpose, express

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535
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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=

> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20>
> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,

Barry
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun, 08 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun, 08 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003); 08 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in
'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
  for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
  d=gmail.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references
    :date:message-id:subject:from:to:content-type;
  bh=YWy9U32WCUIksRqukHwaOZYjQBUu4Yvt5mI20U6ml/g=;
  b=oMjI22IxIyJKe2z4UW3riU9LqFXmey5Wp0PLnuNF+X3duyhopTuBAk7wMwVY
  B5e6VQgVEyzBbNsctyVg6DhQiQtouCLZymSViobmuDmKn5DtkKOxpdK0xGxQmHYaas
  L9A6D3/J66kKrNBgX9mc0GpZTvVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=nofws;
  d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:date:subject:from:to
    :content-type;
  b=Ym7CS1uDEfJKay1AgyWZkZmA1nTcwCG6akBHAXLd8ht6PFcmlsfzZG8hJCIVJ8
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  bqSHpWKdTP4EgAQKiNeiqLGNtR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
  Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Dwayne,
My contribution to pycrypto are very very minimal (The sha256
module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao
PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
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Regards,

-- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256 module, IIRC). </div><div>I'd be fine with the public domain license for PyCrypto.</div><div>Jeethu Rao</div><div>PS: Apologies for the delay in my response.</div><div>Jee</div><div>I don't really check this email address all that often, </div><div>please direct any further correspondence to jeethu@jeethurao.com</div><div></div><div>On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger wrote:<br><div class="gmail_quote">Hi Jeethu,<br><br>I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/...<br><br>People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").</div></div><div>Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.</div>
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

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Regards,

- Dwayne

Dwayne C. Litzenberger <<mailto:dlitz@dlitz.net>>

Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A04A24 928C EC13 39C2 5CF7

Jeethu Rao

--000e0cd209d0e5a3d40464a23054--
LICENSE.libtom  LICENSE file from LibTomCrypt
stmts/ Statements by contributors
Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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================================

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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END OF TERMS AND CONDITIONS

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

That's all there is to it!

1.501 rsync 3.1.2 :6.el7_6.1

1.501.1 Available under license :

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years 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.

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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strstr.c:
missing/strtol.c:
missing/tgamma.c:
ext/digest/sha1/sha1.[ch]:

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missing/strlcpy.c

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/dns/hash.py
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/dns/ipv4.py
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/dns/rdtypes/ANY/AFSDB.py
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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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testing the functionality of the SDL library, and are placed in the
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October 28, 1997

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Sam Lantinga (slouken@libsdl.org)

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Version 2.1, February 1999

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1.511 sed 4.2.2 :5.el7

1.511.1 Available under license :

==============
Test 1.1:101
==============
Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6

Open Source Used In Foundation RHEL7.6
Test 1.2:102

Test 1.3:103
Open Source Used In Foundation RHEL7.6

Test 1.4:104

Second type

Test 1.4.1:105
Test 1.5:106

Test 1.6:107
Test 1.7:108
Test 1.8:109

Test 1.9:110

s1_l1_1
s1_l1_2
s1_l1_3
s1_l1_4
s1_l1_5
s1_l1_6
s1_l1_7
s1_l1_8
s1_l1_9
s1_l1_10
s1_l1_11
s1_l1_12
s1_l1_13
s1_l1_14

============
Test 1.10:111
============
s1_l1_1
s1_l1_2
s1_l1_3
s1_l1_4
s1_l1_5
s1_l1_6
s1_l1_7
s1_l1_8
s1_l1_9
s1_l1_10
s1_l1_11
s1_l1_12
s1_l1_13
s1_l1_14

============
Test 1.11:112
============
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

============
Test 1.12:113

==============
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

==============
Test 1.13:114

==============
e1_l1_1
e2_e1_l1_1
e2_e1_l1_1
e1_l1_2
e2_e1_l1_2
e2_e1_l1_2
e1_l1_3
e2_e1_l1_3
e2_e1_l1_3
e1_l1_4
e2_e1_l1_4
e2_e1_l1_4
e1_l1_5
e2_e1_l1_5
e2_e1_l1_5
e1_l1_6
e2_e1_l1_6
e2_e1_l1_6
e1_l1_7
e2_e1_l1_7
e2_e1_l1_7
e1_l1_8
e2_e1_l1_8
e2_e1_l1_8
e1_l1_9
e2_e1_l1_9
e2_e1_l1_9
e1_l1_10
c2_e1_l1_10
c2_e1_l1_10
e1_l1_11
e2_e1_l1_11
e2_e1_l1_11
e1_l1_12
e2_e1_l1_12
e2_e1_l1_12
e1_l1_13
e2_e1_l1_13
e2_e1_l1_13
e1_l1_14
e2_e1_l1_14
e2_e1_l1_14

============= Test 1.14:115 =============
s1_l1_1
s2_s1_l1_1
s2_s1_l1_1
s1_l1_2
s2_s1_l1_2
s2_s1_l1_2
s1_l1_3
s2_s1_l1_3
s2_s1_l1_3
s1_l1_4
s2_s1_l1_4
s2_s1_l1_4
s1_l1_5
s2_s1_l1_5
s2_s1_l1_5
s1_l1_6
s2_s1_l1_6
s2_s1_l1_6
s1_l1_7
s2_s1_l1_7
s2_s1_l1_7
s1_l1_8
s2_s1_l1_8
s2_s1_l1_8
s1_l1_9
s2_s1_l1_9
s2_s1_l1_9
s1_l1_10
s2_s1_l1_10
s2_s1_l1_10
Test 1.16:117

---

e1_l_1

e1_l_1
e1_l_2
e1_l_2
e1_l_3
e1_l_3
e1_l_4
e1_l_4
e1_l_5
e1_l_5
e1_l_6
e1_l_6
e1_l_7
e1_l_7
e1_l_8
e1_l_8
e1_l_9
e1_l_9
e1_l_10
e1_l_10
e1_l_11
e1_l_11
e1_l_12
e1_l_12
e1_l_13
e1_l_13
e1_l_14
e1_l_14
e1_l_1

e1_l_1
e1_l_2
e1_l_2
e1_l_3

---

s1_e1_l_1_11
e1_l_1_12
s1_e1_l_1_12
s1_e1_l_1_12
e1_l_1_13
s1_e1_l_1_13
s1_e1_l_1_13
e1_l_1_14
s1_e1_l_1_14
s1_e1_l_1_14

---

Test 1.16:117

---
Testing address ranges

Test 1.18:119

Test 2.1:120

Test 2.2:121

Test 2.3:122

Test 2.4:123

Test 2.5:124
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

==================
Test 2.14:132
==================
11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

==================
Test 2.15:133
==================
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=============
Test 2.16:134
=============  
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6

=============  
Test 2.17:135  
==============
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=============
Test 2.18:136
=============
12_3
12_4
12_5
12_6
12_7
12_8
12_9

============= Test 2.19:137
=============
11_12

==============
Test 2.20:138
==============
11_7
Brace and other grouping

==============
Test 3.1:139
==============
11_1
11_2
11_3
^l1T4$
^l1T5$
^l1T6$
^l1T7$
^l1T8$
^l1T9$
^l1T10$
^l1T11$
^l1T12$
11_13
Test 3.2:140

l1_1
l1_2
l1_3
^l1_4
^l1_5
^l1_6$
^l1_7$
^l1T8$
^l1_9$
^l1T10$
^l1_11
^l1_12
l1_13
l1_14

Test 3.3:141

^l1T1$
^l1T2$
^l1T3$
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
^l1T13$
^l1T14$

Test 3.4:142

^l1_1
^l1_2
^l1_3
l1_4
l1_5
l1_6
l1_7
Testing a c d and i commands

etest 4.1:143

before_il1_1
after_ilbefore_il1_1
before_il1_2
after_ilbefore_il1_2
before_il1_3
after_ilbefore_il1_3
before_il1_4
after_ilbefore_il1_4
before_il1_5
after_ilbefore_il1_5
before_il1_6
after_ilbefore_il1_6
before_il1_7
after_ilbefore_il1_7
before_il1_8
after_ilbefore_il1_8
before_il1_9
after_ilbefore_il1_9
before_il1_10
after_ilbefore_il1_10
before_il1_11
after_ilbefore_il1_11
before_il1_12
after_ilbefore_il1_12
before_il1_13
after_ilbefore_il1_13
before_il1_14
after_ilbefore_il1_14
before_il2_1
after_ilbefore_il2_1
before_il2_2
after_ilbefore_il2_2
before_il2_3
after_ilbefore_il2_3
before_il2_4
after_ilbefore_il2_4
before_1l2_5
after_1before_1l2_5
before_1l2_6
inserted
after_1before_1l2_6
before_1l2_7
after_1before_1l2_7
before_1l2_8
after_1before_1l2_8
before_1l2_9
after_1before_1l2_9

============
Test 4.2:144
============
before_a11_1
after_abefore_a11_1
before_a11_2
after_abefore_a11_2
before_a11_3
after_abefore_a11_3
before_a11_4
after_abefore_a11_4
before_a5-1211_5
after_abefore_a5-1211_5
appended
before_a5-1211_6
after_abefore_a5-1211_6
appended
before_a5-1211_7
after_abefore_a5-1211_7
appended
before_a5-1211_8
after_abefore_a5-1211_8
appended
before_a5-1211_9
after_abefore_a5-1211_9
appended
before_a5-1211_10
after_abefore_a5-1211_10
appended
before_a5-1211_11
after_abefore_a5-1211_11
appended
before_a5-1211_12
after_abefore_a5-1211_12
appended
before_a11_13
after_abefore_al1_13
before_al1_14
after_abefore_al1_14
before_al2_1
after_abefore_al2_1
before_al2_2
after_abefore_al2_2
before_al2_3
after_abefore_al2_3
before_al2_4
after_abefore_al2_4
before_al2_5
after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

==============
Test 4.3:145
==============
^l1_1
^l1_1$
apended
^l1_2
^l1_2$
apended
^l1_3
^l1_3$
apended
^l1_4
^l1_4$
apended
^l1_5
^l1_5$
apended
^l1_6
^l1_6$
apended
^l1_7
^l1_7$
apended
^l1_8
apended
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello

Test 4.4:146

hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello

--------------
hello
hello
hello

===============
Test 4.5:147
===============
hello

===============
Test 4.6:148
===============
hello

===============
Test 4.7:149
===============
hello

===============
Test 4.8:150
===============
Testing labels and branching

===============
Test 5.1:151
===============
label2_1_1
label3_label2_1_1
label1_1_2
label1_1_3
label1_1_4
label1_1_5
label1_1_6
label1_1_7
label1_1_8
label1_1_9
label1_1_10
label1_1_11
label1_1_12
label2_1_13
label3_label2_1_13
label2_1_14
label3_label2_1_14

===============
Test 5.2:152
===============

tested l2_1
tested l2_2
tested l2_3
tested l2_4
tested l2_5
tested l2_6
tested l2_7
tested l2_8
tested l2_9
tested l2_10
tested l2_11
tested l2_12
tested l2_13
tested l2_14

============
Test 5.3:153
============
^l1_1$
^l1_1$
^l1_2$
^l1_2$
^l1_3$
^l1_3$
^l1_4$
^l1_4$
l1_5$
l1_5$
l1_6$
l1_6$
l1_7$
l1_7$
l1_8$
l1_8$

============
Test 5.4:154
============
^l1_1$
^l1_1$
^l1_2$
^l1_2$
^l1_3$
^l1_3$
^l1_4$
^l1_4$
l1_5$
l1_5$
l1_6$
l1_6$
l1_7$
l1_7$
l1_8$
l1_8$
l1_9$
l1_9$
l1_10$
l1_10$
l1_11$
l1_11$
l1_12$
l1_12$
l1_13$
l1_13$
l1_14$
l1_14$
Test 5.5:155

^l1_1
^l1_2
^l1_4
^l1_6
^l1_8

Test 5.6:156

l1_1
l1_2
l1_3
l1_4
l1_5

Test 5.7:157

l1_1
l1_2
l1_3
l1_4
hello
l1_5

Test 5.8:158

m1_1
m1_2
m1_3
m1_4
m1_5
m1_6
m1_7
m1_8
m1_9
m1_10
m1_11
m1_12
m1_13
m1_14

Pattern space commands
Test 6.1:159

=========
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
 changed
Test 6.2:160

=========
11_1
11_2
11_3
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

Test 6.3:161

=========
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
Test 6.4:162

Test 6.5:163

Test 6.6:164

Testing print and file routines
Test 7.3:167

Test 7.4:168
Testing substitution commands

Test 8.1:172

Test 8.2:173

Test 8.3:174
Test 8.4:175

Test 8.5:176
-----
Test 8.6:177
-----
(l)(1)(_)(1)
(l)(1)(_)(2)
(l)(1)(_)(3)
(l)(1)(_)(4)
(l)(1)(_)(5)
(l)(1)(_)(6)
(l)(1)(_)(7)
(l)(1)(_)(8)
(l)(1)(_)(9)
(l)(1)(_)(1)(0)
(l)(1)(_)(1)(1)
(l)(1)(_)(1)(2)
(l)(1)(_)(1)(3)
(l)(1)(_)(1)(4)

-----
Test 8.7:178
-----
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)

-----
Test 8.8:179
-----
x_x1xl1
x_x1xl2
x_x1xl3
x_x1xl4
x_x1xl5
x_x1xl6
x_x1xl7
x_x1xl8
Test 8.9:180

l1u0
u1
u21
l1u0
u1
u22
l1u0
u1
u23
l1u0
u1
u24
l1u0
u1
u25
l1u0
u1
u26
l1u0
u1
u27
l1u0
u1
u28
l1u0
u1
u29
l1u0
u1
u210
l1u0
u1
u211
l1u0
u1
u212
l1u0
u1
Test 8.10:181

Test 8.11:182

s wfile results
Open Source Used In Foundation RHEL7.6

Test 8.15:186

Test 8.16:187

eeefff
Xeefff
XYefff
XYeYff
XYeYYf
XYeYYY
XYeYYY

Test 8.17:188

&&&&
&&&&
&&&&
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<head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<title>SQLite Copyright</title>
<style type="text/css">
body { 
  margin: auto;
  font-family: Verdana, sans-serif;
  padding: 8px 1%;
}

a { color: #044a64 }
a:visited { color: #734559 }

.logo { position:absolute; margin:3px; }
.tagline { 
  float:right;
  text-align:right;
  font-style:italic;
  width:300px;
  margin:12px;
  margin-top:58px;
}

.menubar { 
  clear: both;
  border-radius: 8px;
}
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1.531 sudo 1.8.23 :3.el7

1.531.1 Available under license :

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

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1.533 sysstat 10.1.5 :17.el7

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1.534 system-config-date 1.10.6 :3.el7

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1.535 system-config-date-docs 1.0.11 :4.el7

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1.539 system-config-users-docs 1.0.9 :6.el7

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1.540 systemd 219 :62.el7_6.6
1.540.1 Available under license :

# coredumpctl(1) completion
#*- shell-script -*#
#
# This file is part of systemd.
#
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# systemd is free software; you can redistribute it and/or modify it
# under the terms of the GNU Lesser General Public License as published by
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# General Public License for more details.
#
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__contains_word () {
  local w word=$1; shift
  for w in "$@"; do
    [[ $w = "$word" ]] && return
  done
}

__journal_fields=(MESSAGE{,_ID} PRIORITY CODE_{FILE,LINE,FUNC} ERNRO SYSLOG_{[FACILITY,IDENTIFIER,PID} COREDUMP_EXE _{P,U,G}ID _COMM_EXE _CMDLINE _AUDIT_{SESSION,LOGINUID} _SYSTEMD_{[CGROUP,SESSION,UNIT,OWNER_UID}
```bash
__SELINUX_CONTEXT __SOURCE_REALTIME_TIMESTAMP
__{BOOT,MACHINE}_ID __HOSTNAME __TRANSPORT
__KERNEL__{DEVICE,SUBSYSTEM}
__UDEV__{SYSNAME,DEVNODE,DEVLINK}
__CURSOR __{REALTIME,MONOTONIC}_TIMESTAMP)

__coredumpctl() {
  local i verb comps
  local cur=${COMP_WORDS[COMP_CWORD]} prev=${COMP_WORDS[COMP_CWORD-1]}
  local OPTS='-h --help --version --no-pager --no-legend -o --output -F --field -l'

  local -A VERBS=
    [LIST]='list'
    [DUMP]='dump gdb'

  if __contains_word "$prev" --output -o; then
    comps=$( compgen -A file -- "$cur" )
    compopt -o filenames
  elif __contains_word "$prev" --FIELD -F; then
    comps=$( compgen -W '${__journal_fields[*]}*' -- "$cur" )
  elif "[ [ $cur = -* ]; then
    comps=${OPTS}
  elif __contains_word "$prev" ${VERBS[*]} &&
    ! __contains_word "$[COMP_WORDS[COMP_CWORD-2]]' --output -o -F --field'; then
    compopt -o nospace
    COMPREPLY=( $(compgen -W '${__journal_fields[*]} -S=-' -- "$cur") )
    return 0
  elif "[ [ $cur = *=* ]; then
    mapfile -t field_vals < <(coredumpctl -F "$prev%=" 2>/dev/null)
    COMPREPLY=( $(compgen -W '${field_vals[*]} -S=-' -- "$cur=#") )
    return 0
  elif "[ [ $prev = '=' ]; then
    mapfile -t field_vals < <(coredumpctl -F "$[COMP_WORDS[COMP_CWORD-2]]" 2>/dev/null)
    comps=${field_vals[*]}
  else
    for ((i=0; i <= COMP_CWORD; i++)); do
      if __contains_word "$[COMP_WORDS[i]]" ${VERBS[*]}; then
        verb="$[COMP_WORDS[i]]"
      fi
    done

    if "[ [ -z $verb ]; then
      comps=${VERBS[*]}
    elif __contains_word "$verb" ${VERBS[LIST]} ${VERBS[DUMP]}; then
      comps=""
    fi
  fi
```
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Version 2.1, February 1999

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.543 taglib 1.8 :7.20130218git.el7

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Chun-Pong Yu (bol.pacific.net.sg)
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config

/******************** System dependant compilation flags ********************/

/*
* POSIX	This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS	This system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK	This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS	You have BSD-style job control (both process groups and
* a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES	You have BSD-style process time stuff (like rusage)
*/
*This may or may not be true. For example, Apple Unix *(OREO) has BSDJOBS but not BSDTIMES.* /*
#define BSDTIMES

/*/ 
* BSDLIMITYou have BSD-style resource limit stuff (getrlimit/setrlimit) */
#define BSDLIMIT

/*/ 
* TERMIOYou have struct termio instead of struct sgttyb. 
* This is usually the case for SYSV systems, where
* BSD uses sgttyb. POSIX systems should define this
* anyway, even though they use struct termios.
*/
#undef TERMIO

/*/ 
* SYSVRELYour machine is SYSV based (HPUX, A/UX)
* NOTE: don't do this if you are on a Pyramid -- tcsh is
* built in a BSD universe.
* Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
* you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL0

/*/ 
* YPBUGSWork around Sun YP bugs that cause expansion of ~username
* to send command output to /dev/null
*/
#undef YPBUGS

/******************** local defines ********************/

#endif /* _h_config */

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1.550 texinfo 5.1 :5.el7
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1.553 tk 8.5.13 :6.el7
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1.554 tmpwatch 2.11 :5.el7

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

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

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  *
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```
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*
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*
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-----

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
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-------------------------------------------------------------

1.562 urw-fonts 2.4 :16.el7

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by gs8.inmotionhosting.com with esmtpsa (TLSv1:AES256-SHA:256)
(Exim 4.69)
(envelope-from <bill@thedirks.org>)
id 1OEd8K-0004wo-An; Tue, 18 May 2010 23:52:00 -0700
Message-ID: <4BF38878.9030208@thedirks.org>
Date: Tue, 18 May 2010 23:43:04 -0700
From: Bill Dirks <bill@thedirks.org>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.9) Gecko/20100317 Thunderbird/3.0.4
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Huzaifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: License question about v4l1-compat.c
References: <4BF2445B.2080203@redhat.com>
In-Reply-To: <4BF2445B.2080203@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-AntiAbuse: This header was added to track abuse, please include it with any abuse report
X-AntiAbuse: Primary Hostname - gs8.inmotionhosting.com
X-AntiAbuse: Original Domain - redhat.com
X-AntiAbuse: Originator/Caller UID/GID - [47 12] / [47 12]
X-AntiAbuse: Sender Address Domain - thedirks.org
X-Source:
X-Source-Args:
X-Source-Dir:
X-RedHat-Spam-Score: 0 ()
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Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:
> Hi Bill,
>
> AFAIK you've been out of the v4l loop, so I assume you don't know me, this let me start with a shot self introduction:
>
> I'm a Linux enthusiast / developer. Amongst other things I've ported over many webcam drivers from v4l1 to v4l2 and I'm the author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had too much free time and was looking for a hobby project and I decided that improving webcam support under Linux would be a nice project. At that time there were many webcam driver but most of them were out of tree, including the gspca driver which is a usb webcam driver framework supporting a lot of different chipsets.
>
> One problem with getting these merged is that a lot of webcam chipsets produce proprietary (compressed) video formats, which apps don't understand. The out of tree drivers all "fixed" this by doing decompression and video format conversion inside the kernel.
>
> This was not acceptable thus it was time to write a library to sit between v4l2 apps and devices which could do format conversion if necessary. This resulted in libv4l2 and libv4lconvert being written, with libv4l2 being the glue sitting in between and libv4lconvert doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all one needs to do is write v4lx_open instead of plain open when opening the device and them use v4lx_ioctl, etc. on the resulting fd instead of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such...
And now (finally) my question to you, lately we (the v4l devs) have been working on removing the last bits of v4l1 from the kernel. We would like to also remove the v4l1 ioctl compatibility (*), but currently libv4l1 depends on the v4l1 ioctl compatibility for some ioctls.

Fixing this comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. Thus my question is would it be ok to use your v4l1 compat code under the LGPL inside libv4l1?

Thanks & Regards,

Hans

(*) As in practice v4l1 apps need libv4l1 anyways both for format conversion and because some v4l2 drivers don't implement VIDIOCGBUF including rather important ones like the UVC driver, thus we've come to the conclusion that we might just as well drop the compatibility from the kernel
Hi,

> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Fine with me.

cheers,

Gerd
Hi All,

I'm writing you all because you've contributed patches to the kernels v4l1 ioctl compat code living in v4l1-compat.c

Most of you already know me, and know that I'm working on making libv4l1 become independent of the kernel v4l1 ioctl compat code, so that it can be removed from the kernel.

For those who don't know me or the v4l1 cleanup effort, read below for the long story.

Making libv4l1 independent of the v4l1-compat.c code in the kernel comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. I already have permission from Bill Dirks who wrote the initial v4l1-compat code to do this.

My question to you is would it be ok to use your v4l1 compat contributions under the LGPL inside libv4l1?
Looking forward to seeing this in libv4l1 so we can kill this legacy code in the kernel.

Regards,

Hans Verkuil

> 
> > Thanks & Regards,
> >
> > Hans
> >
> > The long story:
> >
> > I'm a Linux enthusiast / developer. Amongst other things I've
> > ported over many webcam drivers from v4l1 to v4l2 and I'm the
> > author and maintainer of libv4l.
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> > Let me also quickly introduce libv4l about 3 years ago I had
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> > of their plain versions. This serves 2 purposes:
> > 1) It makes porting of apps the the library trivial
2) It allows for an LD_PRELOAD shim (used for proprietary apps such as skype).

Lately we (the v4l devs) have been working on removing the last bits of v4l1 from the kernel. We would like to also remove the v4l1 ioctl compatibility (*), but currently libv4l1 depends on the v4l1 ioctl compatibility for some ioctls, we are working on fixing this which involves re-using code from v4l1-compat.c, hence the re-licensing permission question.

(*) As in practice v4l1 apps need libv4l1 anyways both for format conversion and because some v4l2 drivers don't implement VIDIOCGBUF including rather important ones like the UVC driver, thus we've come to the conclusion that we might just as well drop the compatibility from the kernel.

--
Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco

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Date: Wed, 19 May 2010 11:24:57 -0300
From: Mauro Carvalho Chehab <mchehab@redhat.com>
User-Agent: Thunderbird 2.0.0.22 (X11/20090609)
MIME-Version: 1.0
To: Hans de Goede <hdgoede@redhat.com>
CC: Gerd Hoffmann <kraxel@redhat.com>, Hans Verkuil <hverkuil@xs4all.nl>,
Hans de Goede wrote:

> Hi All,
> 
> I'm writing you all because you've contributed patches
> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
> 
> Most of you already know me, and know that I'm working on
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> For those who don't know me or the v4l1 cleanup effort,
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> the initial v4l1-compat code to do this.
> 
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

LGPL for v4l1-compat code is fine for me.

Cheers,
Mauro

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Kibaale Children's Centre

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up
needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*
Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship. Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

 vim:tw=78:ts=8:ft=help:norl:
 " Vim syntax file
 " Language:Software Distributor product specification file
 " (POSIX 1387.2-1995).
 " Maintainer: Rex Barzee <rex_barzee@hp.com>
 " Last change: 25 Apr 2001

if version < 600
 " Remove any old syntax stuff hanging around
 syn clear
elseif exists("b:current_syntax")
 finish
endif

 " Product specification files are case sensitive
 syn case match

 syn keyword psfObject bundle category control_file depot distribution
 syn keyword psfObject end file fileset host installed_software media
 syn keyword psfObject product root subproduct vendor
Some of the attributes covered by attUnquotString and attQuotString:
- architecture
- category tag
- control directory
- copyright
- create date
- description
- directory
- file permissions
- install source
- install type
- location
- machine type
- mod date
- number
- os name
- os release
- os version
- pose as os name
- pose as os release
- readme
- revision
- share link
- title
- vendor tag

These regions are defined in attempt to do syntax checking for some
of the attributes.

Some of the keywords:
- psfState: available, configured, corrupt, installed, transient
- psfPState: applied, committed, superseded
- psfBoolean: false, true

Some of the regions:
- psfAttUnquotString
- psfAttQuotString
- psfAttTag
- psfAttSpec
- psfAttTags
- psfAttNumber
Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
if version < 508
  let did_psf_syntax_inits = 1
  command -nargs=+ HiLink hi link <args>
else
  command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject       Statement
HiLink psfAttrib       Type
HiLink psfQuotString   String
HiLink psfObjTag       Identifier
HiLink psfAttAbbrev    PreProc
HiLink psfObjTags      Identifier

HiLink psfComment      Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
1.569 vino 3.22.0 :7.el7

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1.571 wavpack 4.60.1 :9.el7

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$Id$

Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required
--------------------

Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:
The easiest way to install these is by using your operating system's ports or packages system.

2. Compiling Wireshark
-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

    ./configure
    make
    make install

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

    ls -l /dev/bpf*

You should see one or more bpf devices listed similar to this:

    crw------- 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
    crw------- 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1

Packet-capturing programs will pick the first bpf device that's not in
use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
---------------------------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

```
user {user}
```
to set the user who owns the device, or

```
group {group}
```
to set the group that owns the device and adding a line such as

```
devfs_system_ruleset=localrules
```

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
[localrules=10]
add path 'bpf*' mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in the "wheel" group.
This package was debianized by Frederic Peters <fpeters@debian.org> on Sun, 13 Sep 1998 23:05:47 +0200

It was downloaded from http://www.wireshark.org/download/src/all-versions/

The Wireshark web site URL is http://www.wireshark.org/

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editcap.c:
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epan/dissectors/packet-mount.h:
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epan/dissectors/packet-x11-keysym.h:
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BSD, like in_cksum.c, according to wireshark-dev@, message-id: <44C1EFA2.3050907@alum.mit.edu>

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1.575 words 3.0 :22.el7

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17 May 93

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MOBY WORDS II CONTENTS

354,984 single words
Over 354,000 single words, excluding proper names, acronyms, or compound words and phrases. This list does not exclude archaic words or significant variant spellings.
256,772 compound words
Over 256,700 hyphenated or other entries containing more
than one word as well as all capitalized words and acronyms.
Phrases were considered ‘common’ if they or variations of them
occur in standard dictionaries or thesauruses.

113,809 official crosswords
A list of words permitted in crossword games such as Scrabble(tm).
Compatible with the first edition of the Official Scrabble Players
Dictionary(tm). Since this list has all forms: -ing, -ed, -s, and so on
of words, it makes a good addition when building a custom spelling dictionary.

4,160 official crosswords delta
When combined with the 113,809 crosswords file, it produces the
official crossword list compatible with the second edition of the
Official Scrabble Players Dictionary. (Scrabble is a registered
trademark of Milton-Bradley licensed to Merriam-Webster.)

74,550 common dictionary words
A list of words in common with two or more published dictionaries.
This gives the developer of a custom spelling checker a good beginning
pool of relatively common words.

21,986 names
This database contains the most common names used in the
United States and Great Britain. Spelling checkers may want to
supplement their basic word list with this one.

4,946 female names
frequent given names of females in English speaking countries

3,897 male names
frequent given names of males in English speaking countries

10,196 places
a large selection of place names in the United States

1,000 by frequency
This file consists of the 1,000 most frequently used
English words from a wide variety of common texts listed
in decreasing order of frequency

1,000 by frequency internet
This file consists of the 1,000 most frequently used
English words as used on the Internet computer network in 1992.

6,213 acronyms
common acronyms & abbreviations
1,185 King James Version frequent substrings
The most frequently occurring 1,185 substrings in the King James
Version Bible ranked and counted by order of frequency.

467 current fiction substrings
The most frequently occurring 467 substrings occurring in a

USA Constitution
The Constitution of the United States, including the Bill of Rights
and all amendments current to 1993.

NOTE: Accents have been stripped from words, e.g., 'étude'
does not mark the accent on the initial 'é'.

1.576 wpa_supplicant 2.6 :12.el7
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wpa_supplicant and hostapd
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1.584 xmlrpc-c 1.32.5 :1905.svn2451.el7
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1.591 xorg-x11-driv-keyboard 1.9.0 :1.el7

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1.592 xorg-x11-driv-mouse 1.9.2 :2.el7

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1.604 xorg-x11-fonts 7.5 :9.el7

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1.608 xorg-x11-utils 7.5 :23.el7

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1.609 xorg-x11-xauth 1.0.9 :1.el7

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1.611 xorg-x11-xkb-utils 7.7 :14.el7

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1.612 xulrunner 31.6.0 :2.el7_1

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Wilco

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To: <Wilco.Dijkstra@ntlworld.com>
Sent: Thursday, June 23, 2011 11:44 PM
Subject: Fwd: sqrt routine

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Kevin

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 *
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* Portable Audio I/O Library
* Ring Buffer utility.
* 
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
* 
* Note that this is safe only for a single-thread reader and a
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* 
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzzip2 version 1.0.4 of 20 December 2006

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Patent, to web servers on the Internet. Wang may appeal this decision to
the Federal Circuit. Wang contended that its Patent disclosing a
"Videotex" system, is infringed by the following functionality in the
Netscape Navigator code: 1) the animated logo and status line indicators
--See Claims 1,8 and 9; 2) the "File Save As" function --See Claims
23-27; 3) Bookmarks and Rename Bookmarks in the Properties window --See
Claims 20-22; 4) storing HTML, GIF, and JPEG files and adding filename
extensions --See Claim 38.

B) Intermind owns pending U.S. patent applications on communications
systems which employ metadata ("channel objects") to define a control
structure for information transfer. The Netscape code does not infringe
as released; however, modifications which utilize channel objects as
described by Intermind should be considered carefully. The following is
a statement from Intermind: "Intermind's claims fundamentally involve
the use of a control structure to automate communications. ...The
essence of Intermind's top claim is that two devices sender and receiver
have persistent storage, communicate over a network, and exchange a
control structure including metadata which describes: 1) what
information is to be updated, 2) when to update this information, and 3)
how to transfer the updated information. In addition, at least the
receiving device must be able to process the metadata in order to
perform the update determination and transfer. Any digital
communications system which incorporates all of these elements will be

C) Stac, Inc., and its licensing agent Hi/fn, own several patents which
disclose data compression methods implementing an LZS compression
algorithm, including U.S. Patent Nos. 4,701,745 and 5,016,009 ("the
Stac Patents"). The Netscape Communicator code does not perform
compression. If you modify the Netscape source code to perform
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An almost complete rewrite of MySpell for use by the Mozilla project has been developed by David Einstein (Deinst@world.std.com). David and I are now working on parallel development tracks to help our respective projects (Mozilla and OpenOffice.org) and we will maintain full affix file and dictionary file compatibility and work on merging our versions of MySpell back into a single tree. David has been a significant help in improving MySpell.

Special thanks also go to La'szlo' Ne'meth <nemethl@gyorsposta.hu> who is the author of the Hungarian dictionary and who developed and contributed the code to support compound words in MySpell.
* and fixed numerous problems with the encoding
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Afrikaans hyphenation patterns

(more info about the licence to be added later)

% Hyphenation patterns for Afrikaans
%
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% http://www.latex-project.org/lppl.txt
% and version 1.3 or later is part of all distributions of LaTeX
% version 2005/12/01 or later.
% -----------------------------------------------------------------
% VERSION: 0.9 (October 2010)
%
% AUTHORS:  Tilla Fick and Chris Swanepoel
%    hyphen at rekenaar dot net
% -----------------------------------------------------------------
% Define lefthyphenmin to one and righthyphenmin to two
% (although righthyphenmin could technically be made one,
% in allmost all cases a value of two gives better results):
% \lefthyphenmin=1 \righthyphenmin=2
%
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Bulgarian hyphenation patterns

(more info about the licence to be added later)

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% Copyright 1994-2008 Georgi Boshnakov
% Georgi dot Boshnakov at manchester dot ac dot uk
%
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% of the LaTeX Project Public License distributed from CTAN
% archives in directory macros/latex/base/lppl.txt; either
% version 1 of the License, or any later version.
%
%
% First version: 1994
% Modified: June 2000 (minor changes)
% Modified: May 2006 (added copyright notice)
% Modified: June 2008 (changed encoding to utf-8)
%
% Please send wrongly hyphenated words and suggestions for
% corrections to the address given towards the beginning of this
% file.
%
%
% Note: The original name of this file was 'bghyphsi.tex' which is
% part of the package 'bghyphen'. The package 'bghyphen' is now
% obsolete but it is still available on CTAN and currently (June 2008)
% gives the same hyphenation results.
%
%
% To make TeX use these patterns:
%
% (1) Make sure that the hyph-utf8 package is present in your TeX system.
%
% (2) generate the necessary formats (TeX, LaTeX, pdfLaTeX, etc), instructing TeX to load 'loadhyph-bg.tex' for Bulgarian hyphenation.
%
% The LaTeX babel package sets \lefthyphenmin and \righthyphenmin to 2 when the language is switched to Bulgarian. Developers who write support for Bulgarian outside LaTeX and/or babel need to take care of this.
%
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Catalan hyphenation patterns

(more info about the licence to be added later)

% This file is part of hyph-utf8 package and resulted from semi-manual conversions of hyphenation patterns into UTF-8 in June 2008.
%
% Source: cahyph.tex (2003-09-08)
% Author: Gon"al Badenes <g.badenes at ieee.org>
%
% The above mentioned file should become obsolete,
% and the author of the original file should preferably modify this file instead.
%
% Modifications were needed in order to support native UTF-8 engines,
% but functionality (hopefully) didn't change in any way, at least not intentionally.
% This file is no longer stand-alone; at least for 8-bit engines
% you probably want to use loadhyph-foo.tex (which will load this file) instead.
%
% Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
% with help & support from:
%  - Karl Berry, who gave us free hands and all resources
%  - Taco Hoekwater, with useful macros
%  - Hans Hagen, who did the unicodifisation of patterns already long before
%    and helped with testing, suggestions and bug reports
%  - Norbert Preining, who tested & integrated patterns into TeX Live
%
% However, the "copyright/copyleft" owner of patterns remains the original author.
%
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%
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% you are the Queen / the King, we are only the servants.
%
% If you want to change this file, rather than uploading directly to CTAN,
% we would be grateful if you could send it to us (http://tug.org/tex-hyphen)
% or ask for credentials for SVN repository and commit it yourself;
% we will then upload the whole "package" to CTAN.
%
% Before a new "pattern-revolution" starts,
% please try to follow some guidelines if possible:
%
% - \lccode is *forbidden*, and I really mean it
% - all the patterns should be in UTF-8
% - the only "allowed" TeX commands in this file are: \patterns, \hyphenation,
%   and if you really cannot do without, also \input and \message
% - in particular, please no \catcode or \lccode changes,
%   they belong to loadhyph-foo.tex,
%   and no \lefthyphenmin and \righthyphenmin,
%   they have no influence here and belong elsewhere
% - \begingroup and/or \endinput is not needed
% - feel free to do whatever you want inside comments
%
% We know that TeX is extremely powerful, but give a stupid parser
% at least a chance to read your patterns.
% For more unformation see
%
%    http://tug.org/tp-hyphen
%
%---------------------------------------------------------------------
%
% Hyphenation patterns for Catalan.
% This is version 1.11
% Compiled by Gon"al Badenes and Francina Turon,
%
% Copyright (C) 1991-2003 Gon"al Badenes
%
%---------------------------------------------------------------------
%
% IMPORTANT NOTICE:
%
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% version 1 of the License, or any later version.
%---------------------------------------------------------------------
%
%---------------------------------------------------------------------
%
% NOTICE: Version 1.11 is identical to version 1.10 (issued on January 17,
% 1995) except for the updated copyright notice above.
%
% The macros used were created for ghyph31.tex by Bernd Raichle (see the
% German hyphenation pattern files for further details)
%
% This patterns have been created using standard, conservative
% hyphenation rules for catalan. The results have refined running them
% through patgen. In that way, the number of hits has been increased.
These rules produce no wrong patterns (Results checked against the
`Diccionari Ortogràfic i de Pronúncia`, Enciclopèdia Catalana. The percentage of valid hyphen misses is lower than 1%
Some of the patterns below represent combinations that never
happen in Catalan. We have tried to keep them to a minimum.

*** IMPORTANT ***
\lefthyphenmin and \righthyphenmin should be set to 2 and 2
respectively. If you set them below these values incorrect breaks
will happen (specially at the beginning of foreign words and words
which begin with some prefixes).

*** IMPORTANT ***

Please report any problem you might have to the authors!!!

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Welsh hyphenation patterns

(more info about the licence to be added later)

% hyph-cy.tex, Welsh hyphenation patterns
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<yannis dat haralambous at telecom-bretagne dot eu>

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This work has the LPPL maintenance status `maintained'.
The Current Maintainer of this work (patterns) is Yannis Haralambous.
This work consists of the file hyph-cy.tex and is part of hyph-utf8
maintained by tex-hyphen team which also contains derived files.
For more unformation see
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CHANGES:
- 1996 - last change to patterns
- 2008 - inclusion into hyph-utf8 and file rename (cyhyph.tex -> hyph-cy.tex)
- June 2011 - added LPPL licence
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Danish hyphenation patterns

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% semi-manual conversions of hyphenation patterns into UTF-8 in June 2008.
%
% Source: dkcommon.tex (yyyy-mm-dd), dkspecial.tex (yyyy-mm-dd)
% Author: Frank Jensen <frank.jensen at hugin.com>
%
% The above mentioned file should become obsolete,
% and the author of the original file should preferably modify this file instead.
%
% Modifications were needed in order to support native UTF-8 engines,
% but functionality (hopefully) didn't change in any way, at least not intentionally.
% This file is no longer stand-alone; at least for 8-bit engines
% you probably want to use loadhyph-foo.tex (which will load this file) instead.
%
% Modifications were done by Jonathan Kew, Mojca Miklavc & Arthur Reutenauer
% with help & support from:
% - Karl Berry, who gave us free hands and all resources
% - Taco Hoekwater, with useful macros
% - Hans Hagen, who did the unicodification of patterns already long before
%   and helped with testing, suggestions and bug reports
% - Norbert Preining, who tested & integrated patterns into TeX Live
%
% However, the "copyright/copyleft" owner of patterns remains the original author.
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% The copyright statemnt of this file is thus:
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%
% If you want to change this file, rather than uploading directly to CTAN,
% we would be grateful if you could send it to us (http://tug.org/tex-hyphen)
% or ask for credentials for SVN repository and commit it yourself;
% we will then upload the whole "package" to CTAN.
%
% Before a new "pattern-revolution" starts,
% please try to follow some guidelines if possible:
%
% - \lccode is *forbidden*, and I really mean it
% - all the patterns should be in UTF-8
% - the only "allowed" TeX commands in this file are: \patterns, \hyphenation,
%   and if you really cannot do without, also \input and \message
% - in particular, please no \catcode or \lccode changes,
%   they belong to loadhyph-foo.tex,
%   and no \lefthyphenmin and \righthyphenmin,
%   they have no influence here and belong elsewhere
% - \begingroup and/or \endinput is not needed
% - feel free to do whatever you want inside comments
%
% We know that TeX is extremely powerful, but give a stupid parser
% at least a chance to read your patterns.
%
% For more information see
%
% http://tug.org/tex-hyphen
%
%----------------------------------------------------------------------
%
% This file contains the hyphenation patterns for Danish.
%
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% conditions of the LaTeX Project Public License, either version 1.3
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% The latest version of this license is in
% http://www.latex-project.org/lppl.txt
% and version 1.3 or later is part of all distributions of LaTeX
% version 2003/12/01 or later.
%
% Changes:
% - 2011-01-11 - remove support for OT1 encoding
%
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German hyphenation patterns (traditional orthography)
(more info about the licence to be added later)

% dehypht-x-2011-06-01.pat

\message{German Hyphenation Patterns (Traditional Orthography) `dehypht-x' 2011-06-01 (WL)}

% TeX-Trennmuster für die traditionelle deutsche Rechtschreibung
%
% Copyright (C) 2008, 2009, 2011 Werner Lemberg <wl@gnu.org>
%
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% of the LaTeX Project Public License Distributed from CTAN
% archives in directory macros/latex/base/lppl.txt; either
% version 1 of the License, or any later version.
%
% The word list is available from
%
% http://repo.or.cz/w/wortliste.git?a=commit;h=2d246449f5c4f570f4d735d3ad091f6ad70f6972
%
% The used patgen parameters are
%
% 1 1 | 2 5 | 1 1 1
% 2 2 | 2 5 | 1 2 1
% 3 3 | 2 6 | 1 1 1
% 4 4 | 2 6 | 1 4 1
% 5 5 | 2 7 | 1 1 1
% 6 6 | 2 7 | 1 6 1
% 7 7 | 2 13 | 1 4 1
% 8 8 | 2 13 | 1 8 1
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German hyphenation patterns (reformed orthography)

(more info about the licence to be added later)

% dehyphn-x-2011-06-01.pat

\message{German Hyphenation Patterns (Reformed Orthography, 2006) \textasciitilde dehyphn-x' 2011-06-01 (WL)}

% TeX-Trennmuster f"r die reformierte (2006) deutsche Rechtschreibung
%
%
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%
%
% The word list is available from
%
% http://repo.or.cz/w/wortliste.git?a=commit;h=2d246449f5c4f570f4d735d3ad091f6ad70f6972
%
% The used patgen parameters are
%
%  1 1 2 5 | 1 1 1
%  2 2 2 5 | 1 2 1
%  3 3 2 6 | 1 1 1
%  4 4 2 6 | 1 4 1
%  5 5 2 7 | 1 1 1
%  6 6 2 7 | 1 6 1
%  7 7 2 13 | 1 4 1
%  8 8 2 13 | 1 8 1

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Swiss-German hyphenation patterns (traditional orthography)
% dehyphts-x-2011-06-01.pat

\message{Swiss-German Hyphenation Patterns (Traditional Orthography) `dehyphts-x' 2011-06-01 (WL)}

% TeX-Trennmuster für die traditionelle deutsch-schweizerische
% Rechtschreibung
%
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%
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%
% http://repo.or.cz/w/wortliste.git?a=commit;h=2d246449f5c4f570f4d735d3ad091f6ad70f6972
%
% The used patgen parameters are
%
%  1 1 | 2 5 | 1 1 1
%  2 2 | 2 5 | 1 2 1
%  3 3 | 2 6 | 1 1 1
%  4 4 | 2 6 | 1 4 1
%  5 5 | 2 7 | 1 1 1
%  6 6 | 2 7 | 1 6 1
%  7 7 | 2 13 | 1 4 1
%  8 8 | 2 13 | 1 8 1
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% See http://tug.org/tex-hyphen and other files in the package
% However, this file does not comply with rules of other patterns
% as it still uses TeX macros, and a dedicated converter would be needed
% to convert patterns into OpenOffice-friendly form for example.
% But it should work OK with both 8-bit engines (TeX, pdfTeX, ...)
% as well as with native UTF-8 ones (XeTeX, LuaTeX, ...)
%---------------------------------------------------------------
% \message{Esperanto Hyphenation Patterns `eohyph', 1999-08-10}
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% More documentation can be found near the end of this file.
% \begin{group}
% Makrooj por la finaj:
% \def\adj#1{#1a. #1aj. #1ajn. #1an. #1e.}
% \edef\nom#1{\adj{#1} #1o. #1oj. #1ojn. #1on.}
% \def\ver#1{#1as. #1i. #1is. #1os. #1u. #1us.}
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% ~~~~~~~~~~~~~~~~~~~~~
% hyph-es.tex 4.6
% This files corresponds to eshyph.tex 4.6.
% %
% % (c) Javier Bezos 1993 1997.
% % (c) Javier Bezos and CervanTeX 2001-2010
% % Some parts, (c) by Francesc Carmona
% % Licence: LPPL
% %
% % For further info, bug reports and comments:
% %
% %   http://www.tex-tipografia.com/spanish_hyphen.html
% %
% % I would like to thanks Francesc Carmona for his permission
% % to steal parts of his work without restrictions.
% %
% % 2010-05-18
% %
% %
% % Javier Bezos | http://www.cervantex.es/
% % .............................................................
% % TeX y tipografia | http://www.tex-tipografia.com/
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%
% % Source: eehyph.tex (2004-04-13)
% % Author: Een Saar <saar at aai dot ee>
% %
% % The above mentioned file should become obsolete,
% % and the author of the original file should preferable modify this file instead.
% %
% % Modifications were needed in order to support native UTF-8 engines,
% % but functionality (hopefully) didn't change in any way, at least not intentionally.
% % This file is no longer stand-alone; at least for 8-bit engines
% % you probably want to use loadhyph-foo.tex (which will load this file) instead.
% %
% % Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
% % with help & support from:
% % - Karl Berry, who gave us free hands and all resources
% % - Taco Hoekwater, with useful macros
% % - Hans Hagen, who did the unicodifisation of patterns already long before
% %    and helped with testing, suggestions and bug reports
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% % we would be grateful if you could send it to us (http://tug.org/tex-hyphen)
% or ask for credentials for SVN repository and commit it yourself;
% we will then upload the whole "package" to CTAN.
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%
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%   and if you really cannot do without, also \input and \message
% - in particular, please no \catcode or \lccode changes,
%   they belong to loadhyph-foo.tex,
% - no \lefthyphenmin and \righthyphenmin,
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%
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% version 2003/12/01 or later.
%
% This work has the LPPL maintenance status "author-maintained".
% This work consists of this file only (eehyph.tex).
%
% The patterns were generated long ago by applying patgen to
% an Estonian dictionary; a few patterns were added later manually
% to prohibit aa-bits type cases.
% Declare the special characters
%
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%  %----->  Finnish hyphenation patterns for MLPCTeX  <-----  
%  
%  + January 1986: first release by Kauko Saarinen,
%  Computing Centre, University of Jyvaskyla, Finland
%  
%  + January 1988: completely rewritten by Kauko Saarinen.
%  The new patterns make much less mistakes with foreign
%  and compound words. The article "Automatic Hyphenation
%  of Finnish" by Professor Fred Karlsson is also referred
%  
%  + 8th March 1989 (vers. 2.2): some vowel triples added by
%  Kauko Saarinen based on Fred Karlsson's ideas
%  
%  + 9th January 1995: added \uccode and \lccode by Thomas Esser
%  
%  + 24th May 2004: changelog reformatted for disambiguation and
%  Thomas Esser's \[u/l]ccode changes complete rewritten to make
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%  + 24th May 2004: rewrote donated into the Public Domain
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%  
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French hyphenation patterns (V2.12, 2002/12/11)

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% semi-manual conversions of hyphenation patterns into UTF-8 in June 2008.
% % Source: frhyph.tex <2006-10-20>
% % Author: R. Bastian, D. Flipo, B. Gaulle <cesure-l at gutenberg.eu.org>
% % The above mentioned file should become obsolete,
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% % Modifications were needed in order to support native UTF-8 engines,
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% % This file is no longer stand-alone; at least for 8-bit engines
% % you probably want to use loadhyph-foo.tex (which will load this file) instead.
% % Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
% with help & support from:
%   Karl Berry, who gave us free hands and all resources
%   Taco Hoekwater, with useful macros
%   Hans Hagen, who did the unicodifisation of patterns already long before
%   and helped with testing, suggestions and bug reports
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% - feel free to do whatever you want inside comments
%
% We know that TeX is extremely powerful, but give a stupid parser
% at least a chance to read your patterns.
%
% For more unformation see
%
% http://tug.org/tex-hyphen
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
% French hyphenation patterns
% This file is available for free and can used and redistributed
% asis for free. Modified versions should have another name.
% %message{frhyph.tex - French hyphenation patterns (V2.12) <2002/12/11>}
%
% *BEFORE* using this file *PLEASE* run checksum on it: %
% checksum -v frhyph.tex %
% to make sure that it hasn't been damaged. %
% Then if you notice anything wrong in french hyphenation please report to %
% R. Bastian, D. Flipo, B. Gaulle at the email address: %
% cesure-l@gutenberg.eu.org %
% % checksum  = "37208 1458 3078 34821"
% % The most famous good guys who worked hard to obtain something usable.
% Jacques Desarmenien, Universite de Strasbourg :
% - << how to run TeX in a French environment: hyphenation, fonts, typography. >> in Tugboat, 5 (1984) 91-102. and TeX85 conference
% - << La division par ordinateur des mots francais : application a TeX >> in TSI vol. 5 No 4, 1986 (C) AFCET-Gauthier-Villars
% Norman Buckle, UQAH (nb; many additions)
% Michael Ferguson, INRS-Telecommunications (mjf) June 1988
% Justin Bur, Universite de Montreal (jbb; checked against original list)
% all patterns including apostrophe missing from nb list
% after that, GUTenberg and specially Daniel Flipo and Bernard Gaulle
% did their best effort to improve the list of patterns.
%
% -----------------------------------------------------------------
% Adaption of these patterns for
% - TeX Version 3.x and MLTeX 3.x (2.x)
% and
% - all fonts in 'T1/Cork' and/or CM/OT1 encoding
% by Bernd Raichle 1996/08/28 (using ideas from `ghyph31.tex'
% as of 1994-02-13 maintained by Bernd Raichle).
% (An adaption for the old MLTeX 2.x exists but can not be
% tested in lack of an executable.)
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Hyphenation patterns for Galician, written in the utf8 encoding.

% Generated with the mkpattern utility (v. 1.2), on 2010/04/23
% The original source file were glpattern-utf8.tex
% This is a generated file
%
% (c) Javier A. M"gica; 2006, 2007, 2008, 2010
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%
% LPPL maintenance status: maintained
% Current Maintainer: Javier A. M"gica
%
% For bug reports and comments:
%
% Javier M"gica, javier at digi21.eu
%
% Note that there is no 'j' nor 'y' in Galician
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Croatian hyphenation patterns

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%
% Copyright (C) 1994, 1996, 2011 Igor Marinovi&#263; <marinowski at gmail.com>
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Source: sorhyph.tex (1997-05-07)
Author: E. Werner

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Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
with help & support from:
- Karl Berry, who gave us free hands and all resources
- Taco Hoekwater, with useful macros
- Hans Hagen, who did the unicodisation of patterns already long before
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Derived from hyph_hu.tex in the "huhyphn" package <https://github.com/nagybence/huhyphn>, by processing the TeX hyphenation patterns with substrings.pl.

% Huhypbn - hungarian hyphenation patterns v20110815
%
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% 
% Source: iahyphen.tex (2005-06-28)
% Author: Peter Kleiweg <p.c.j.kleiweg at rug.nl>
% 
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% 
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% This file is no longer stand-alone; at least for 8-bit engines
% you probably want to use loadhyph-foo.tex (which will load this file) instead.
% 
% Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
% with help & support from:
% - Karl Berry, who gave us free hands and all resources
% - Taco Hoekwater, with useful macros
% - Hans Hagen, who did the unicodisation of patterns already long before
% and helped with testing, suggestions and bug reports
% - Norbert Preining, who tested & integrated patterns into TeX Live
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% we will then upload the whole "package" to CTAN.
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% and no \lefthyphenmin and \righthyphenmin,
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% - \begingroup and/or \endinput is not needed
% - feel free to do whatever you want inside comments
%
% We know that TeX is extremely powerful, but give a stupid parser
% at least a chance to read your patterns.
%
% For more unformation see
%
% http://tug.org/tex-hyphen
%
%----------------------------------
%
% File: iahyphen.tex
% TeX hyphenation patterns for Interlingua.
% Version 0.2b. Released 3 July 2001.
% version 0.2c  Released 28 June 2005 (added LPPL header)
% Created by Peter Kleiweg, p.c.j.kleiweg at rug.nl
% About Interlingua: http://www.interlingua.com/
License information for hyph_is.dic:

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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Icelandic hyphenation patterns

(more info about the licence to be added later)

% This file is part of hyph-utf8 package and resulted from
% semi-manual conversions of hyphenation patterns into UTF-8 in June 2008.
% 
% Source: icehyph.tex (2004-03-08)
% Author: Jorgen Pind <jorgen at lexis.hi.is>
%
% The above mentioned file should become obsolete,
% and the author of the original file should preferaby modify this file instead.
%
% Modifications were needed in order to support native UTF-8 engines,
% but functionality (hopefully) didn't change in any way, at least not intentionally.
% This file is no longer stand-alone; at least for 8-bit engines
% you probably want to use loadhyph-foo.tex (which will load this file) instead.
%
% Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
% with help & support from:
% - Karl Berry, who gave us free hands and all resources
% - Taco Hoekwater, with useful macros
% - Hans Hagen, who did the unicodifisation of patterns already long before
  and helped with testing, suggestions and bug reports
% - Norbert Preining, who tested & integrated patterns into TeX Live
%
% However, the "copyright/copyleft" owner of patterns remains the original author.
%
% The copyright statement of this file is thus:
%
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% If you're the original author of patterns or taking over a new revolution,
% please remove all of the TUG comments & credits that we added here -
% you are the Queen / the King, we are only the servants.
%
% If you want to change this file, rather than uploading directly to CTAN,
% we would be grateful if you could send it to us (http://tug.org/tex-hyphen)
% or ask for credentials for SVN repository and commit it yourself;
% we will then upload the whole "package" to CTAN.
%
% Before a new "pattern-revolution" starts,
% please try to follow some guidelines if possible:
%
% - \lccode is *forbidden*, and I really mean it
% - all the patterns should be in UTF-8
% - the only "allowed" TeX commands in this file are: \patterns, \hyphenation,
  and if you really cannot do without, also \input and \message
% - in particular, please no \catcode or \lccode changes,
% - they belong to loadhyph-foo.tex,
% - and no \lefthyphenmin and \righthyphenmin,
% - they have no influence here and belong elsewhere
% - \begingroup and/or \endinput is not needed
% - feel free to do whatever you want inside comments
%
% We know that TeX is extremely powerful, but give a stupid parser
% at least a chance to read your patterns.
%
% For more information see
%
%   http://tug.org/tex-hyphen
%
%------------------------------------------------------------------------------
%
% The Icelandic Plain TeX hyphenation tables
% as of Nov 2 1988.
% Jorgen Pind, Institute of Lexicography, Univ. of Iceland
% jorgen@lexis.hi.is (Internet)
%
% Mar 2 2004: Uploaded a new version to CTAN, with a clarified license
% statement, at the request of the author, Jorgen Pind.
% Kristinn Gylfason (kristgy@ieee.org)
%
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% conditions of the LaTeX Project Public License, either version 1.2
% of this license or (at your option) any later version.
% The latest version of this license is in
%   http://www.latex-project.org/lppl.txt
% and version 1.2 or later is part of all distributions of LaTeX
% version 1999/12/01 or later.
% License information for hyph_it.dic:

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-------------------------------------------------------------------

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-------------------------------------------------------------------

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Italian hyphenation patterns

(more info about the licence to be added later)
% hyph-it.tex
%
% Italian hyphenation patterns
%
% This file is part of the hyph-utf8 package.
% For more information see
%
%   http://tug.org/tex-hyphen
%
%------------------------------------------------------------------
%
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%
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% version 1.3 of this license or (at your option) any later
% version. The latest version of this license is in
% http://www.latex-project.org/lppl.txt
% and version 1.3 or later is part of all distributions
% of LaTeX version 2003/12/01 or later.
%
% This work has the LPPL maintenance status "maintained".
%
% This Current Maintainer of this work is Claudio Beccari
% e-mail: claudio dot beccari at gmail dot com
%
% This work consists of the single file hyph-it.tex.
%
% \versionnumber{4.8i} \versiondate{2011/08/16}
%
% These hyphenation patterns for the Italian language are supposed to comply
% with the Recommendation UNI 6461 on hyphenation issued by the Italian
% Standards Institution (Ente Nazionale di Unificazione UNI). No guarantee
% or declaration of fitness to any particular purpose is given and any
% liability is disclaimed.
%
% ChangeLog:
% - 2011-08-16 - Change the licence from GNU LGPL into LPPL v1.3.
% - 2010-05-24 - Fix for Italian patterns for proper hyphenation of -ich and Ljubljana.
% - 2008-06-09 - Import of original ithyph.tex into hyph-utf8 package.
% - 2008-03-08 - (last change in ithyph.tex)
%
License information for hyph_kmr.dic:

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Kurmanji hyphenation patterns (v. 1.0 2009/06/29 JKn and MSh)

(more info about the licence to be added later)

% hyph-kmr.tex
%
% Hyphenation patterns for Kurmanji (Northern Kurdish)
%
% (as spoken in Turkey and by the Kurdish diaspora in Europe).
% The patterns are generated by patgen from a word list of approx. 2500
% hyphenated words provided by Medeni Shemd"
%
% Copyright 2009 J"rg Knappen and Medeni Shemd"
%
% These patterns are free software under the LaTeX Project Public Licence
% (LPPL) version 1.3
%
% This work has the LPPL maintenance status `maintained'.
%
% The Current Maintainer of patterns is J"rg Knappen,
% maintainers of UTF-8 version are authors of hyph-utf8 package.
%
% For more unformation see
%
% http://tug.org/tex-hyphen
%
% The patterns were generated by J"rg Knappen with patgen using
% a list of 2.5k hyphenated Kurmanji words provided by Medeni Shemd".
%
% For 8-bit engines the T1 (Cork) encoding is needed
% for the special letters occurring in the Kurmanji alphabet.
%
% \message{Kurmanji hyphenation patterns kmrhyph v. 1.0 2009/06/29 JKn and MSh}
License information for hyph_la.dic:

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Latin hyphenation patterns

(more info about the licence to be added later)

% This file is part of hyph-utf8 package and resulted from
% semi-manual conversions of hyphenation patterns into UTF-8 in June 2008.
% % Source: lahyphtex (2007-09-03)
% % Author: Claudio Beccari <claudio.beccari at polito.it>
% % The above mentioned file should become obsolete,
% % and the author of the original file should preferaby modify this file instead.
% % Modifications were needed in order to support native UTF-8 engines,
% % but functionality (hopefully) didn't change in any way, at least not intentionally.
% % This file is no longer stand-alone; at least for 8-bit engines
% % you probably want to use loadhyph-foo.tex (which will load this file) instead.
% % Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
% with help & support from:
% - Karl Berry, who gave us free hands and all resources
% - Taco Hoekwater, with useful macros
% - Hans Hagen, who did the unicodification of patterns already long before
% and helped with testing, suggestions and bug reports
% - Norbert Preining, who tested & integrated patterns into TeX Live
%
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% please remove all of the TUG comments & credits that we added here -
% you are the Queen / the King, we are only the servants.
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% we would be grateful if you could send it to us (http://tug.org/tex-hyphen)
% or ask for credentials for SVN repository and commit it yourself;
% we will then upload the whole "package" to CTAN.
%
% Before a new "pattern-revolution" starts,
% please try to follow some guidelines if possible:
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% - all the patterns should be in UTF-8
% - the only "allowed" TeX commands in this file are: \patterns, \hyphenation,
% and if you really cannot do without, also \input and \message
% - in particular, please no \catcode or \lccode changes,
% they belong to loadhyph-foo.tex,
% and no \lefthyphenmin and \righthyphenmin,
% they have no influence here and belong elsewhere
% - \begingroup and/or \endinput is not needed
% - feel free to do whatever you want inside comments
%
% We know that TeX is extremely powerful, but give a stupid parser
% at least a chance to read your patterns.
%
% For more unformation see
%
% http://tug.org/tex-hyphen
%
%--------------------------------------------------------------------------
%
% ********** lahyph.tex ************
%
% Copyright 1999- 2001 Claudio Beccari
% [latin hyphenation patterns]
%
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% archives in directory macros/latex/base/lppl.txt; either
% version 1 of the License, or any later version.
% -----------------------------------------------
%
% Patterns for the latin language mainly in modern spelling
% (u when u is needed and v when v is needed); medieval spelling
% with the ligatures 'ae and 'oe and the (uncial) lowercase 'v'
% written as a 'u' is also supported; apparently there is no conflict
% between the patterns of modern Latin and those of medieval Latin.
%
% Support for font encoding T1 with a 256-character set.
%
% Prepared by Claudio Beccari
% Politecnico di Torino
% Torino, Italy
% e-mail beccari@polito.it
%
% 1999/03/10 Integration of `lahyph7.tex' and `lahyph8.tex' into
% one file `lahyph.tex' supporting fonts in OT1 and T1 encoding by
% Bernd Raichle using the macro code from `dehypht.tex' (this code
%
% 2010/05/31 Removal of OT1 support
% 2010/06/01 Removal of pattern 2'2 (probably a leftover from Italian)
%
\versionnumber{3.2} \versiondate{2010/06/01}
%
% Information after \endinput.
%
% License information for hyph_lt.dic:
the LPPL Work was available from:

and the original Lithuanian TeX package (from which this was derived) was available from:
http://www.vtex.lt/tex/distfiles/littex-20081028.tar.gz

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(copied verbatim from hyph-lt.lic.txt in the original work):

Lithuanian hyphenation patterns

(more info about the licence to be added later)

% This file is part of hyph-utf8 package and resulted from
% semi-manual conversions of hyphenation patterns into UTF-8
% in October 2008 by Mojca & Arthur.
%
% Source available on:
% - http://www.vtex.lt/tex/littex/index.html
%
% Authors:
%
% First version in LT encoding (modified T1):
% - Vytas Statulevičius <vytas at vtex.lt>
% - Yannis Haralambous
% (Vilnius, March 4, 1992)
% Conversion into Latin 7 and aditional support files (babel, fonts):
% - Sigitas Tolusis <sigitas at vtex.lt>
% (2002-11-20)
% Adaptation for hyph-utf8:
% - Mojca & Arthur (see below), October 2008
%
% The copyright statement of this file is:
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% "a better world" as long as you respect the copyright of original file.
%
% If you want to change this file, rather than uploading directly to CTAN,
% we would be grateful if you could send it to us (http://tug.org/tex-hyphen)
% or ask for credentials for SVN repository and commit it yourself;
% we will then upload the whole "package" to CTAN.
%
% For more unformation see
%
% http://tug.org/tex-hyphen
%
%------------------------------------------------------------------------------
% A note about lefthyphenmin/righthyphenmin (by Sigitas, February 2009):
% At the moment the lefthyphenmin & righthyphenmin are both set to 2.
% The Lithuanian patterns were build earlier than the latest grammatical rules
% took place in 1997. At that time it was forbidden to leave one character at boundary.
% One may change it to one now, but from typographical point of view there is no need to do
% any changes. Even more, changing lefthyphen and righthyphen to 1 requires
% to review and maybe rebuild the patterns file.
%------------------------------------------------------------------------------
License information for hyph_mn.dic:

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(New) Mongolian hyphenation patterns

 more info about the licence to be added later)

% This file is part of hyph-utf8 package and resulted from
% semi-manual conversions of hyphenation patterns into UTF-8 in June 2008.
% Source: mnhyphn.tex (2008-03-30)
% Author: Dorjgotov Batmunkh <bataak at gmail.com>
% The above mentioned file should become obsolete,
% and the author of the original file should preferable modify this file instead.
% Modifications were needed in order to support native UTF-8 engines,
% but functionality (hopefully) didn’t change in any way, at least not intentionally.
% This file is no longer stand-alone; at least for 8-bit engines
% you probably want to use loadhyph-foo.tex (which will load this file) instead.
%
% Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
% with help & support from:
% - Karl Berry, who gave us free hands and all resources
% - Taco Hoekwater, with useful macros
% - Hans Hagen, who did the unicodisation of patterns already long before
%     and helped with testing, suggestions and bug reports
% - Norbert Preining, who tested & integrated patterns into TeX Live
%
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% If you're the original author of patterns or taking over a new revolution,
% please remove all of the TUG comments & credits that we added here -
% you are the Queen / the King, we are only the servants.
%
% If you want to change this file, rather than uploading directly to CTAN,
% we would be grateful if you could send it to us (http://tug.org/tex-hyphen)
% or ask for credentials for SVN repository and commit it yourself;
% we will then upload the whole "package" to CTAN.
%
% Before a new "pattern-revolution" starts,
% please try to follow some guidelines if possible:
%
% - \lccode is *forbidden*, and I really mean it
% - all the patterns should be in UTF-8
% - the only "allowed" TeX commands in this file are: \patterns, \hyphenation,
%     and if you really cannot do without, also \input and \message
% - in particular, please no \catcode or \lccode changes,
%     they belong to loadhyph-foo.tex,
%     and no \lefthyphenmin and \righthyphenmin,
%     they have no influence here and belong elsewhere
% - \begingroup and/or \endinput is not needed
% - feel free to do whatever you want inside comments
%
% We know that TeX is extremely powerful, but give a stupid parser
% at least a chance to read your patterns.
%
% For more unformation see
%
% http://tug.org/tex-hyphen
%
%----------------------------------------------------------------------------------
There are few basic rules in Mongolian:

1. If there is a consonant then it can use hyphen before it.
2. And if there are two consonants then it can use hyphen before second consonant.
3. Are there three consonants then it can put hyphen before third consonant,
4. also are there four consonants then it can use hyphen before fourth consonant.
5. In the case of hardsign or softsign, it's possible to hyphen after these signs.
6. For instance, &amp;#1073;&amp;#1072;&amp;#1081;&amp;#1075;&amp;#1091;&amp;#1083;&amp;#1098;&amp;#1103;&amp;#1199;&amp;#1079;&amp;#1199;&amp;#1083;&amp;#1100;&amp;#1077;

However one vowel can be belong to a syllable, it's not possible to use hyphen.

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Norwegian Bokmal hyphenation patterns

(more info about the licence to be added later)

% Adapted to the new pattern-loading scheme.
% Original file name was nbhyph.tex
% TeX hyphenation patterns for Norwegian Bokmal
%
% Version 2007-02-10
%
% Copyright (C) 2007 Karl Ove Hufthammer.
% Copying and distribution of this file, with or without modification,
% are permitted in any medium without royalty, provided the copyright
% notice and this notice are preserved.
%
% This file contains hyphenation patterns for Norwegian Bokmal.
% It uses the Norwegian hyphenation patterns from nohyphbx.tex,
% created by Rune KleveIand and Ole Michael Selberg. Please see
% that file for copyright information on those patterns.
%
% The patterns in nohyphbx are based on both Norwegian Bokmal
% and Norwegian Nynorsk, and works about equally well for both
% languages. This file, nbhyph.tex, contains only a few hyphenation
% exceptions, for words that needs to be hyphenated differently for
% the two languages.
%
% Please send bugs or suggestions to karl@huftis.org.
%
\input hyph-no.tex

\hyphenation{
at-ten-de
be-tre
}
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Dutch hyphenation patterns

(more info about the licence to be added later)

% This file is part of hyph-utf8 package and resulted from
% semi-manual conversions of hyphenation patterns into UTF-8 in June 2008.
% % Source: nehyph96.tex (yyyy-mm-dd)
% % Author: Piet Tutelaers
% % The above mentioned file should become obsolete,
% % and the author of the original file should preferably modify this file instead.
% % Modifications were needed in order to support native UTF-8 engines,
% % but functionality (hopefully) didn't change in any way, at least not intentionally.
% % This file is no longer stand-alone; at least for 8-bit engines
% % you probably want to use loadhyph-foo.tex (which will load this file) instead.
% % Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
% % with help & support from:
% % - Karl Berry, who gave us free hands and all resources
% % - Taco Hoekwater, with useful macros
% % - Hans Hagen, who did the unicodification of patterns already long before
% %   and helped with testing, suggestions and bug reports
% % - Norbert Preining, who tested & integrated patterns into TeX Live
% % However, the "copyright/copyleft" owner of patterns remains the original author.
% % The copyright statement of this file is thus:
% % Do with this file whatever needs to be done in future for the sake of
% % "a better world" as long as you respect the copyright of original file.
% % If you're the original author of patterns or taking over a new revolution,
% % please remove all of the TUG comments & credits that we added here -
% % you are the Queen / the King, we are only the servants.
% % If you want to change this file, rather than uploading directly to CTAN,
% % we would be grateful if you could send it to us (http://tug.org/tex-hyphen)
% % or ask for credentials for SVN repository and commit it yourself;
% % we will then upload the whole "package" to CTAN.
% % Before a new "pattern-revolution" starts,
% % please try to follow some guidelines if possible:
% % % - \lccode is *forbidden*, and I really mean it
% % - all the patterns should be in UTF-8
% % - the only "allowed" TeX commands in this file are: \patterns, \hyphenation,
and if you really cannot do without, also \input and \message
- in particular, please no \catcode or \lccode changes,
they belong to loadhyph-foo.tex,
and no \lefthyphenmin and \righthyphenmin,
you have no influence here and belong elsewhere
\begingroup and/or \endinput is not needed
feel free to do whatever you want inside comments

We know that TeX is extremely powerful, but give a stupid parser
at least a chance to read your patterns.

For more information see

http://tug.org/tex-hyphen

------------------------------------------------------------------------------

PURPOSE: 8-bit hyphenation patterns for TeX based upon the new Dutch
spelling, officially since 1 August 1996. These patterns follow
the new hyphenation rules in the 'Woordenlijst Nederlandse
Taal, SDU Uitgevers, Den Haag 1995' (the so called 'Groene
Boekje') described in section 5.2 (Het afbreekteken).

The main differences with our earlier patterns based upon the
CELEX dictionary are:
(1) provide 8-bit patterns based upon the T1 character encoding
   (the encoding for DC/EC compatible TeX fonts)
(2) don't hyphenate if this results in a syllable of one letter
   before or after the hyphen (hence hyphens in a-drenaline,
   studio-o, mensa-pen and vide-oachtig are invalid)
(3) handle words derived from other languages ('bastaard
    woorden') according to the new rules

Like the CELEX patterns these patterns don't hyphenate:
(4) in a changing syllable (menuutje can not be hyphenated as
    menu-tje)
(5) in words that have different hyphenations according to
    there meaning (buur-tje/buurt-je)

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archives in directory macros/latex/base/lppl.txt; either
version 1 of the License, or any later version.
% -----------------------------------------------
% VERSION: 1.1 (November 1996) Copyright changed March 2000
%
% AUTHOR: Piet Tutelaers P.T.H.Tutelaers@tue.nl
%
License information for hyph_nn.dic:

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hyph-utf8 package, and retains the same copyright and licensing conditions (below).

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Norwegian Nynorsk hyphenation patterns

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% Adapted to the new pattern-loading scheme.
% Original file name was nnhyph.tex

% TeX hyphenation patterns for Norwegian Nynorsk
%
% Version 2007-02-10
%
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%
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% It uses the Norwegian hyphenation patterns from nohyphbx.tex,
% created by Rune Kleveland and Ole Michael Selberg. Please see
% that file for copyright information on those patterns.
%
% The patterns in nohyphbx are based on both Norwegian Bokmal
% and Norwegian Nynorsk, and works about equally well for both
% languages. This file, nnhyph.tex, contains only a few hyphenation
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% - Taco Hoekwater, with useful macros
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% The history of development of the Polish hyphenation patterns:
%
% The first version of the patterns was developed
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%
% The adaptation to the LeX format (see below) and extensive modification
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% The hyphenation rules were further improved and adapted to the
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[hyphen patterns for Serbocroatian language]

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% [slovenian hyphenation patterns]
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%
% This file contains slovene hyphen patterns with "'
%
% Generation of hyphen patterns for TeX
%
Matjaž Vrečko, TeXCeX (SLO), 1990
%
Email: matjaz@mg-soft.si
%
% Changes:
% 1990       First version of `hyphen.si' (Matjaž Vrečko, TeXCeX)
%
% Some cosmetic changes done later on, but none of these apply any more;
% the patterns are still the same as they were originally:
%
% 1994-05-17 Use of code page 852 in patterns (Leon "lajpah)
% 1995-04-06 Release of `sihyph21.tex'
% 1995-06-20 Added `slovenehyphenmins
%       Release of `sihyph22.tex'
% 1997-15-04 Some changes concerning "c, "s, "z and ...
%       Release of `sihyph23.tex'
% 2007-01-20 `sihyph23.tex' renamed to `slhyph.tex'
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%
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%
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% Author: Jan Michael Rynning
%
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%
% Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
% with help & support from:
% - Karl Berry, who gave us free hands and all resources
% - Taco Hoekwater, with useful macros
% - Hans Hagen, who did the unicodifisation of patterns already long before
% and helped with testing, suggestions and bug reports
% - Norbert Preining, who tested & integrated patterns into TeX Live
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% part of all distributions of LaTeX version 1999/12/01 or later. 
%
% Last update: 1994-03-03 (March 3, 1994). 
% Revision history: 
% 1991-01-08: First version available for anonymous FTP. 
% 1991-08-08: Changed \aa to \aa0 at end of line, to stop TeX from 
% concatenating the patterns. 
% 1991-09-03: Cleaned up lots of inconsistencies in the dictionary. 
% As a consequence, the patterns shrunk a lot. Also 
% added some 4000 one-syllable words, some of which were 
% hyphenated by the old patterns, and some 1500 compound 
% words, about half of which were incorrectly hyphenated 
% by the old patterns. 
% 1991-11-01: Added another some 6200 compound words, all of which were 
% incorrectly hyphenated by the old patterns. 
% 1991-11-13: Added another some 6500 compound words, all of which were 
% incorrecthyphenated by the old patterns. 
% 1992-01-30: Changed macros to ^^, for use with LaTeX and dc fonts. 
% 1994-03-03: The hyphenated dictionary now contains about 118,000 words. 
% The hyphenation now works much better for compound words. 
% Patgen parameters: 1 2 20, 2 1 8, 1 4 7, 3 2 1, 1 10000 4. 
%
% This file contains Swedish hyphenation patterns for TeX. It assumes
% that you have fonts with the Swedish letters in the positions where
% they occur in ISO Latin 1 (ISO 8859/1):
% Letter: \AA  \"A  \"O  \'E  \aa  "a  "o  \'e
% Position: "C5  "C4  "D6  "C9  "E5  "E4  "F6  "E9
%
% Load this file into initex after plain.tex (or lplain.tex, splain.tex,
% or whatever).
%
% The patterns were generated in such a way that they will hyphenate
% correctly if \lefthyphenmin\>=1 and \righthyphenmin\>=2.
%
% These hyphenation patterns work quite well for simple words, but not
% quite as well for compound words. I'm working on improving the quality,
% by adding more words. If you know any Swedish words which are not
% correctly hypheneted using these patterns, or if you have questions or
% comments, please contact me:
%
% Jan Michael Rynning <jmr@incolumitas.se>
%
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% Author: Maksym Polyakov <polyama at auburn.edu>, <mpoliak at i.com.ua>
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% Modifications were done by Jonathan Kew, Mojca Miklavec & Arthur Reutenauer
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March 6, 2014

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def _log_failure(data):
    """Log the mismatched data similarly to conflict markers in git."""
    if self._vlogger is None:
        return
    msg = _('Duplicate of %s differs in some fields:
')
    msg += '<<<<<<< %s:%s
' % (_rid(other), data)
    msg += '%r
=======
%r
' % (other._md[data], self._md[data])
    msg += '>>>>>>> %s:%s' % (_rid(self), data)
    # --verbose mode enables this
    self._vlogger.log(logginglevels.DEBUG_3, msg)

if not other or not hasattr(other, '_md'):
    return False

@@ -113,6 +134,7 @@ class UpdateNotice(object):
        if data == 'status': # FIXME: See below...
            continue
        if self._md[data] != other._md[data]:
+            _log_failure(data)
        return False

    # FIXME: Massive hack, Fedora is really broken and gives status=stable
    # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
        data = 'status'
        if self._md[data] != other._md[data]:
            if self._md[data] not in ('stable', 'testing'):
+                _log_failure(data)
            return False
        if other._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
        return False

    # They are both really "stable" ...
    self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
        try:
-            un = UpdateNotice(elem)
+            un = UpdateNotice(elem, repoid, self._vlogger)
        except UpdateNoticeException, e:
            msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
            if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
        msg = _("Update notice %s is broken, or a bad duplicate, skipping.") % (un['update_id'],
+            _rid(repoid))
        if not have_dup:
            msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%s ")
If you are the owner, consider re-running the same command with --verbose to see the exact data that caused the conflict.

```python
have_dup = True
if self._vlogger:
    self._vlogger.warn("%s", msg)
```

```diff
diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py	2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """Return all notices. """
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
            return []
+        other_arch_list = []
+        notices = set()
+        for notice in self.get_notices(name):
+            for upkg in notice['pkglist']:
+                for pkg in upkg['packages']:
+                    other_arch = False
+                    if pkg['name'] != name or pkg['arch'] != arch:
+                        continue
+                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                            other_arch = True
+                        else:
+                            continue
+                    if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                        if other_arch:
+                            other_arch_list.append((pkgtup, notice))
+                        else:
+                            notices.add(notice)
+                    else:
+                        continue
+                        if notice not in notices:
+                            ret.append((pkgtup, notice))
+                        if not other_arch:
+                            notices.add(notice)
+                        else:
+                            continue
+                        for pkg in upkg['packages']:
+                            other_arch = False
+                            if pkg['name'] != name or pkg['arch'] != arch:
+                                continue
+                                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                                    other_arch = True
+                                else:
+                                    continue
+                                pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                          pkg['version'], pkg['release'])
+                                if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                                    continue
+                                    if other_arch:
+                                        other_arch_list.append((pkgtup, notice))
+                                    else:
+                                        notices.add(notice)
+                            else:
+                                continue
+                        for pkg in upkg['packages']:
+                            other_arch = False
+                            if pkg['name'] != name or pkg['arch'] != arch:
+                                continue
+                                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                                    other_arch = True
+                                else:
+                                    continue
+                                pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                          pkg['version'], pkg['release'])
+                                if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                                    continue
+                                    if other_arch:
+                                        other_arch_list.append((pkgtup, notice))
+                                    else:
+                                        notices.add(notice)
+                            else:
+                                continue
+                        for pkg in upkg['packages']:
+                            other_arch = False
+                            if pkg['name'] != name or pkg['arch'] != arch:
+                                continue
+                                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                                    other_arch = True
+                                else:
+                                    continue
+                                pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                          pkg['version'], pkg['release'])
+                                if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                                    continue
+                                    if other_arch:
+                                        other_arch_list.append((pkgtup, notice))
+                                    else:
+                                        notices.add(notice)
+                            else:
+                                continue
+                        for pkg in upkg['packages']:
+                            other_arch = False
+                            if pkg['name'] != name or pkg['arch'] != arch:
+                                continue
+                                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                                    other_arch = True
+                                else:
+                                    continue
+                                pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                          pkg['version'], pkg['release'])
+                                if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                                    continue
+                                    if other_arch:
+                                        other_arch_list.append((pkgtup, notice))
+                                    else:
+                                        notices.add(notice)
+                            else:
+                                continue
+                        for pkg in upkg['packages']:
+                            other_arch = False
+                            if pkg['name'] != name or pkg['arch'] != arch:
+                                continue
+                                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                                    other_arch = True
+                                else:
+                                    continue
+                                pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                          pkg['version'], pkg['release'])
+                                if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                                    continue
+                                    if other_arch:
+                                        other_arch_list.append((pkgtup, notice))
+                                    else:
+                                        notices.add(notice)
+                            else:
+                                continue
+                        for pkg in upkg['packages']:
+                            other_arch = False
+                            if pkg['name'] != name or pkg['arch'] != arch:
+                                continue
+                                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                                    other_arch = True
+                                else:
+                                    continue
+                                pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                          pkg['version'], pkg['release'])
+                                if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                                    continue
+                                    if other_arch:
+                                        other_arch_list.append((pkgtup, notice))
+                                    else:
+                                        notices.add(notice)
+                            else:
+                                continue
```

```python
ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
```
return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

1.619 yum-metadata-parser 1.1.4 :10.el7
1.619.1 Available under license :
   From RPM File Metadata:GPLv2

1.620 yum-rhn-plugin 2.0.1 :10.el7
1.620.1 Available under license :
   GNU GENERAL PUBLIC LICENSE
   Version 2, June 1991

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

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ZA DNCH OKOLNOST A DNCH PRVNCH PEDPOKLAD, A SE JEDN O PEIN (VETN NEDBALOSTNCH), SMLOUVU NEBO JIN, NEN AUTOR, PVODN PISATEL, KTERKOLIV PISVPATEL NEBO KTERKOLIV DISTRIBUTOR TOHOTO DOKUMENTU NEBO UPRAVEN VERZE DOKUMENTU NEBO KTERKOLIV DODAVATEL NKTER Z TCHTO STRAN ODPOVDN NJAK OSOB ZA PM, NEPM, SPECILN, NAHODIL NEBO NSLEDN KODY JAKHOKOLIV CHARAKTERU, VETN, ALE NEJEN, ZA POKOZEN ZE ZRTRY DOBROH JMNA, PERUEN PRCE, PORUCHY NEBO NESPVRN FUNKCE POTAE NEBO JINHO A VECH DALCH KOD NEBO ZTRIT VYVSTVAJCCH Z NEBO VZTAHUJCCH SE K POUVN TOHOTO DOKUMENTU NEBO UPRAVENCH VERZ DOKUMENTU, I KDY BY TAKOVO STRANA BYLA INFORMOVAN O MONOSTI TAKOVHOTO POKOZEN.</p>

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