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pjnath; a NAT traversal helper library
pjmedia; a multimedia communications library,
pjmedia-codec; a placeholder library to support various multimedia codecs,
pjsip; a SIP protocol stack collections

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ACE Timer Heap Software

Timer heap management of Adaptive Communication Framework (ACE)

Author

Douglas C. Schmidt and his research group at Washington University, University of California, Irvine, and Vanderbilt University, Copyright (c) 1993-2006, all rights reserved

Location

pjlib/timer.[hc]

Description

The timer heap in PJLIB was based on ACE's Timer_Heap

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This code is integral part of the library and can not be disabled.

Alaw/Ulaw Converter

Software

Alaw/ulaw conversion algorithm

Author

Sun Microsystems, Inc

Location

pjmedia/alaw_ulaw.c

Description

PCM Alaw and U-law conversion.

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This software is not used by default unless PJMEDIA_HAS_ALAW_ULAW_TABLE is disabled. When PJMEDIA_HAS_ALAW_ULAW_TABLE is enabled (the default setting), a table based alaw/ulaw conversion will be used instead.

CRC32 Algorithm
Software
CRC32 algorithm

Author
Unknown

Location
pjlib-util/crc32.c

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This is an implementation of CRC32. See ISO 3309 and ITU-T V.42 for a formal specification

This file is partly taken from Crypto++ library(<http://www.cryptopp.com>) and <http://www.dimgt.com.au/crypto.html#CRC>.

Since the original version of the code is put in public domain, this file is put on public domain as well.

Using the Software

This code is needed by the STUN implementation in PJNATH and can not be disabled.

MD5 Hashing Algorithm
Software
MD5 hashing implementation

Author
Written by Colin Plumb in 1993 based on MD5 algorithm by Ron Rivest, no copyright is claimed.

Location
pjlib-util/md5.c

Description

MD5 hashing for digest authentication.

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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. This code is in the public domain; do with it what you wish. 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.

Using the Software

This code is needed by SIP digest authentication procedure, and can not be disabled.

SHA1 Encryption

Software

SHA1 encryption

Authors

Steve Reid, James H. Brown, Saul Kravitz, Ralph Giles

Location

pjlib-util/sha1.c

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GNU Getopt Software

Command line parsing library, part of GNU LIBC

Author

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Location

pjlib-util/getopt.[hc]

Description

Command line parsing library that is used by our sample applications.

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Distributed under opensource GNU LGPL.

Using the Software

This code will only be linked if applications explicitly call `pj_getopt()` or `pj_getopt_long()`. Normally application doesn't need to use this, since this functionality is useful for command line/console types of applications only.

Milenage and Rijndael

Software

Milenage

Author

The implementation was taken from 3GPP TS 35.206 V7.0.0 document.

Location

third_party/milenage/

Description

Milenage algorithm is used for AKAv1-MD5 and AKAv2 SIP digest authentication.

License

Please consult 3GPP TS documents

The 3GPP authentication and key generation functions (MILENAGE) have been developed through the collaborative efforts of the 3GPP Organizational Partners.

They may be used only for the development and operation of 3G Mobile Communications and services. There are no additional requirements or authorizations necessary for these algorithms to be implemented.

Using the Software

The Milenage and Rijndael implementation will only be linked with application if AKA authentication is used and application explicitly calls or makes reference to `pjsip_auth_create_aka_response()` function.

libSRTP

Software

libSRTP

Author

David A. McGrew, Cisco Systems, Inc.

Location

third_party/srtp/

Description

libSRTP implements Secure RTP/RTCP (SRTP and SRTCP).

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Using the Software

Copy of libSRTP is included in PJSIP distribution, and it is built by default on all supported platforms. SRTP functionality is also enabled by default. If you wish to disable SRTP, declare PJMEDIA_HAS_SRTP macro to zero.

DirectShow Base Classes Microsoft SDK Sample Software

DirectShow Base Classes

Author

Microsoft

Location

third_party/BaseClasses/

Description

The DirectShow base classes are a set of C++ classes and utility functions designed for implementing DirectShow filters. Several of the helper classes are also useful for application developers.

License

Microsoft Windows SDK Licence (Licence.htm in Windows SDK installation directory)

Sample Code. You may modify, copy, and distribute the source and object code form of code marked as ?sample.?

Using the Software

Used in DirectShow device driver for video capture support on Windows platform. If you wish to disable it define macro PJMEDIA_VIDEO_DEV_HAS_DSHOW to 0. This will disable video capture on Windows.

External Third Party Software

PJSIP may be linked with these external third party software.

OpenSSL Software

<http://www.openssl.org/>

Author

OpenSSL Project

Location

`pjlib/src/pj/ssl_sock_ossl.c`

Description

OpenSSL is used as the backend implementation of PJLIB's secure socket, which among other thing is used by PJSIP's SIP TLS transport object.

License

The OpenSSL library is licensed under Apache-style license, but this is deemed to be incompatible with GPL.

Using the Software

The library will use OpenSSL if PJ_HAS_SSL_SOCK is set to non-zero. It is detected automatically with the GNU build system, and must be set manually on other build systems (e.g. Windows and Symbian)

bcg729

Software

<http://www.linphone.org/technical-corner/bcg729>

Location

`pjmedia/include/pjmedia-codec/bcg729.h`
`pjmedia/src/pjmedia-codec/bcg729.c`

Description

G.729 codec using backend implementation from bcg729.

License

Please consult the bcg729 website.

Using the Software

bcg729 may be detected and enabled by the configure script, either automatically or manually via `--with-bcg729` option. It may be forcefully disabled by defining PJMEDIA_HAS_BCG729 to 0 in `config_site.h`.

Deprecated Third Party Software

This section contains information about third party software which was used in the past and subsequently has been deprecated in favor of new algorithm. You may or may not be affected by the licensing requirements of the software, depending on whether your PJSIP software version contains copy of the software.

Adaptive Silence Detection
Software

Adaptive Silence Detection

Author
OpenH323 Project

Location
pjmedia/silencedet.[hc]

Description
The adaptive silence detector was based on adaptive silence detector implementation in Open H423 project.

License
This software is distributed under opensource Mozilla MPL terms:

Open H423 Library

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The Original Code is Open H423 Library.

The Initial Developer of the Original Code is Equivalence Pty. Ltd.

Portions of this code were written with the assistance of funding from Vovida Networks, Inc.

<http://www.vovida.com>.

Using the Software

This software is used by various codecs and also by the conference bridge, and can not be disabled.

Deprecated in:

This software has been removed and/or replaced in PJSIP version 1.0-rc1.

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Open Source Software Used

OSS Component	Version	License
alsa-lib	1.1.2	LGPLv2.1 GPLv2+
alsa-plugins	1.1.1	LGPLv2.1 GPLv2+
alsa-state	0.2.0	MIT
alsa-utils	1.1.2	GPLv2+
base-files	3.0.14	GPLv2
base-passwd	3.5.29	GPLv2+
bash	3.2.57	GPLv2+
bootastic-gc	1.0	GPLv2
busybox	1.24.1	GPLv2 bzip2
bzip2	1.0.6	bzip2
ca-certificates	20160104	GPL-2.0+ MPL-2.0
cppfs	1.0	MIT
curl	7.50.1	MIT
dropbear	2016.74	MIT BSD-3-Clause BSD-2-Clause PD
dspg-alsa-conf	1.0	LGPLv2.1
dspg-gc-tools	1.0	DSPG
ethtool	4.6	GPLv2+
eudev	3.2	GPLv2.0+ LGPL-2.1+
flac	1.3.1	GFDL-1.2 GPLv2+ LGPLv2.1+ BSD
freetype	2.6.5	FreeType GPLv2+
gcc-runtime	6.4.0	GPL-3.0-with-GCC-exception
glib-2.0	2.48.2	LGPLv2+ BSD PD
glibc	2.24	GPLv2 LGPLv2.1
glibc-locales	2.24	GPLv2 LGPLv2.1
gmp	6.1.1	GPLv2+
gnutls	3.5.3	LGPLv2.1+
hidapi	0.7.99+0.8.0-rc1+gitAUTOINC+d17db57b9d	BSD-3-Clause
initscripts	1.0	GPLv2
initscripts-dspg	1.0	DSPG
iproute2	4.7.0	GPLv2+
iptables	1.6.0	GPLv2+
iputils	s20151218	BSD GPLv2+
jsoncpp	1.8.3	MIT
kmod	23+gitAUTOINC+65a885df5f	LGPL-2.1+
leveldb	1.20	BSD-3-Clause
libarchive	3.2.2	BSD
libbsd	0.8.3	BSD-4-Clause ISC PD
libcap	2.25	BSD
libevent	2.0.22	BSD
libffi	3.2.1	MIT
libgcc	6.4.0	GPL-3.0-with-GCC-exception
libgcrypt	1.7.3	LGPLv2.1+
libgpg-error	1.24	GPLv2+ LGPLv2.1+
libidn	1.33	LGPLv2.1+
libjpeg-turbo	1.5.0	BSD-3-Clause
libmcrypt	2.5.8	LGPLv2.1
libnl	3.2.28	LGPLv2.1
libogg	1.3.2	BSD
libpam	1.3.0	BSD
libpcap	1.7.4	BSD

libpcre	8.39	BSD
libpng	1.6.24	Libpng
libsamplerate0	0.1.8	GPLv2+
libsdl	1.2.15	LGPLv2.1
libsndfile1	1.0.27	LGPLv2.1
libtool	2.4.6	GPLv2 LGPLv2.1
libunwind	1.1+gitAUTOINC+bc8698fd7e	MIT
libusb1	1.0.20	LGPLv2.1+
libvorbis	1.3.5	BSD
libxml2	2.9.4	MIT
lighttpd	1.4.41	BSD
linux-dspg-gc	4.9	GPLv2
lldpd	0.9.9	ISC
logrotate	3.9.1	GPLv2
lrzsz	0.12.20	GPLv2+
lsof	4.89	BSD
lzo	2.09	GPLv2+
modutils-initscripts	1.0	PD
mosquitto	1.4.10	BSD
mpg123	1.23.6	LGPLv2.1
mtd-utils	1.5.2	GPLv2+
ncurses	6.0+20160625	MIT
netbase	5.3	GPLv2
nettle	3.2	GPLv2+
ntp	4.2.8p9	NTP
openldap	2.4.44	OpenLDAP
openssl	1.0.2j	openssl
opkg	0.3.3	GPLv2+
opkg-arch-config	1.0	MIT
opkg-utils	0.3.2+gitAUTOINC+3ffece9bf1	GPLv2+
paho-mqtt-c	0.x+gitAUTOINC+93a064dbe9	EPL-1.0 EDL-1.0
paho-mqtt-cpp	0.x+gitAUTOINC+07a2ec44e4	EPL-1.0 EDL-1.0
perl	5.22.1	Artistic-1.0 GPL-1.0+
php	5.6.38	PHP-3.0
php-mosquitto	1.0.0	MichaelMacleam
php-pam	1.0.3	PHP-3.0
psip	2.4.5	GPLv2
popt	1.16	MIT
procps	3.3.12	GPLv2+ LGPLv2+
qt4-embedded	4.8.5	LGPLv2.1
rehash	1.0	MIT
rsync	2.6.9	GPLv2+
run-postinsts	1.0	MIT
setserial	2.17	GPLv2.0
shadow	4.2.1	BSD
shadow-securetty	4.2.1	MIT
speexdsp	1.2rc3	BSD
sqlite3	3.14.1	PD
sqlitecpp	2.2.0	MIT
sysvinit	2.88dsf	GPLv2+
sysvinit-inittab	2.88dsf	GPLv2
tcpdump	4.9.0	BSD
ttf-noto-arabic	1.0	OFL-1.1

ttf-roboto	1.0	Apache-2.0
tzdata	2019c	PD BSD BSD-3-Clause
u-boot-fw-utils-gc	2012.04.01	GPLv2+
u-boot-gc	2012.04.01	GPLv2+
unzip	6.0	BSD-3-Clause
update-rc.d	0.7	GPLv2+
usbhid-dump	1.0	GPLv2
util-linux	2.28.1	GPLv2+ LGPLv2.1+ BSD
zip	3.0	BSD-3-Clause
zlib	1.2.8	Zlib

Qt 4.8.5

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Open Source Software Used for WebUI

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angular-animate.min.js	v1.4.7	MIT
angular-file-upload.min.js	v2.1.1	MIT
angular-messages.min.js	v1.4.7	MIT
angular-mocks.js	v1.4.7	MIT
angular-route.min.js	v1.4.7	MIT
angular.min.js	v1.4.7	MIT
bootstrap-select.min.js	v1.6.3	MIT
bootstrap.min.js	v3.3.5	MIT
browser.min.js	v1.0.0	MIT
eventsourcing.min.js	0.9.7	MIT
FileSaver.min.js	v2.1.4	MIT
jquery-2.1.4.min.js		MIT
moment-timezone-with-data.min.js	0.5.23	MIT
moment.min.js	v2.10.6	MIT
nya-bootstrap-select.js	v1.2.6	MIT
ui-bootstrap-tpls-0.13.4.min.js	v0.13.4	MIT

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Version 2.0, January 2004

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bzip2

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

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

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

<one line to give the program`s name and a brief idea of what it does.>

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 1, or (at your option) any later version.

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

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

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

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

That's all there is to it!

GPL-3.0-with-GCC-exception

GCC RUNTIME LIBRARY EXCEPTION
Version 3.1, 31 March 2009

General information:

<http://www.gnu.org/licenses/gcc-exception.html>

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Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

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

0. Definitions.

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

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"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"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.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

GPLv2 GPLv2.0 GPLv2.0+ GPLv2+ GPL-2.0+

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Version 2, June 1991

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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.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. 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.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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.

1. You may copy and distribute 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 and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any 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:

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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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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one line to give the program's name and an idea of what it does.

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

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

Gnomovision version 69, Copyright (C) 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

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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.

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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 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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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.

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

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

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

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

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

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

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

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

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

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
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