



# License Agreement & Third party Software Declaration

EULA09200075

This documentation and the relevant programs (both herein referred to as "Software") are protected by copyright.

We gladly accept any information about incorrect or outdated content via [ip-division@televes.com](mailto:ip-division@televes.com)

Software is delivered in machine-readable format only (object code format). Under all Televes intellectual property rights, Televes hereby grants licensee the non-exclusive right to use the Software. Unless agreed for a limited time period, the right to use the Software is for an unlimited time period. Licensee shall be entitled to make a copy exclusively reserved for personal backup purposes (backup copy). Unless granted by mandatory law (including but not limited to Art. 69 German Copyright Act for decompiling), licensee shall not be entitled to modify, disassemble, reverse engineer, decompile or otherwise alter the Software in whole or in part. Televes reserves all intellectual property rights except as expressly granted herein. Licensee shall not be entitled to modify or delete alpha-numerical or other identification codes on data median and shall transfer such identification codes onto any legal backup copy. Without the prior written approval of Televes, licensee shall not be entitled to transmit any information made available herein.

Modifications of the proprietary software of TELEVES for your own use and reverse engineering for debugging such modifications are herewith permitted to the extent such software components are linked to program libraries under the GNU Lesser General Public License (LGPL). However, forwarding the knowledge acquired during reverse engineering or debugging to third parties is prohibited. Furthermore, you may not redistribute the information obtained from the reengineering or the modified software.

If licensee has received the Software not for commercial purposes of resale (end user), licensee shall be obliged to transmit the right to use the Software to a third party only in connection with the product licensee acquired together with the Software. In the event that licensee transfers the right to use the Software to a third party, licensee shall ensure not to grant further rights to this third party than originally granted to him, and licensee shall ensure to impose this third party the obligations of the present license terms. In such case, licensee shall not withhold any backup copy. Licensee shall not be entitled to grant sublicenses. In the event licensee transmits the Software to a third party, licensee shall be responsible for and shall release Televes insofar from the compliance of export control laws and obligations.

If and insofar Televes provides Software for which Televes is only granted a derived right to use (Third Party Software), the license terms for such Third Party Software shall additionally apply and prevail. If Open Source Software is provided, the license terms for such Open Source Software shall additionally apply and prevail. Televes shall provide licensee with the corresponding source code of relevant Open Source Software, if the respective license terms of the Open Source Software include such obligation. Televes shall inform if the Software contains Third Party Software and/or Open Source Software and make available the corresponding license terms on request.

This Software has been produced with all due care and checked for correctness in accordance with state of the art. Televes hereby disclaims all liability and warranties, whether express or implied, relating to this Software's quality, performance or suitability for any specific purpose which deviates from the performance specifications contained in the Software description. Televes shall not be liable for damages arising directly or indirectly from the use of the manual or related software, nor for incidental or consequential damages, except in case of intent or gross negligence. Televes explicitly disclaims any and all liability for losses of or damage to hardware, software or data in connection with direct or indirect errors or destruction, for cases of damage (including fraud cases) incurred due to deficient or incorrect configurations (including configurations that use insufficient or no password protection) over connections (including but not limited to broadband connections such as DSL, cable/DOSCSIS and fiber optic, also including VoIP or SIP connections), and for any and all costs, including connection charges, related to the Software supplied or due to incorrect installations not performed by Televes.

Televes shall not be obliged to offer any software services. The information in this Software is subject to change without notice for the purpose of technical improvement.

---

2020 ©Televes, S.A.U. All rights reserved. [www.televes.com](http://www.televes.com)

---

The free software 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.

All copyrights are identified in more detail in the free software source code.

Anyone can obtain the source code of the Open Source Software components on a data carrier if you send a request to our customer service department at the following address within three years after the product has been distributed by us or at least as long as we offer support and spare parts for the product:

TELEVES, S.A.U.  
IP Division  
Rúa B, de Conxo 17  
15706 Santiago de Compostela, SPAIN

"Source code [product reference]"

We will charge you EUR 10,- for the creation and shipment of the data carrier. Full documentation of the OSS, the license conditions and copyright notices can be retrieved from the source code of the Open Source Software.

---

All software of third parties is proved "as is" in the existing condition. Every guarantee, whether express or implicit, especially a concludent warranty of market maturity or applicability for a certain purpose, is precluded.

In no case is an originator or his or her staff liable for any direct, indirect, coincidental, special, exemplary damages or consequential damages (this applies especially the procurement of substitute goods or services; the loss of applicability, of data or profit; or operational failures), no matter how these damages were caused or upon what theory of liability they are based, be it contractual liability, liability regardless of negligence or fault, or tort liability (including negligence or miscellaneous) is shown. This also excludes damages that result in any manner from the use of the software, even if the possibility of such damages was indicated.

Televes, S.A.U.  
Rúa B, de Conxo 17  
15706 Santiago de Compostela ( A Coruña)  
Phone number: +34 981 52 22 00  
Fax: +34 981 52 22 62  
asistenciatecnica@televes.com

This software may include third party software contains under the following licenses:

-----

Licenses of module/program 'accountsservice':

-----

Version  
0.6.45-1ubuntu1  
Description  
query and manipulate user account information  
Licenses  
[GPL-2+] [GPL-3+]

-----

Licenses of module/program 'acl':

-----

Version  
2.2.52-3build1  
Description  
Access control list utilities  
Licenses  
[GPL] [LGPL-2.1]

-----

Licenses of module/program 'acpid':

-----

Version  
1:2.0.28-1ubuntu1  
Description  
Advanced Configuration and Power Interface event daemon  
Licenses  
[GPL-2]

-----

Licenses of module/program 'adduser':

-----

Version  
3.116ubuntu1  
Description  
add and remove users and groups  
Licenses  
[GPL-2]

-----

Licenses of module/program 'amd64-microcode':

-----

Version  
3.20191021.1+really3.20181128.  
Description  
Processor microcode firmware for AMD CPUs  
Licenses  
[unknown]

-----

Licenses of module/program 'apache2':

-----

Version  
2.4.29-1ubuntu4.13  
Description  
Apache HTTP Server  
Licenses  
[Apache-2.0] [Apache-2.0 or GPL-2+ BSD-2-clause-Darwin BSD-3-clause-Cambridge BSD-3-clause-Smrggrav Cisco Custom] [GPL-2+] [GPL-3+] [GPL-3+ or Custom Haines MD5] [MIT] [PCRE Zeus]

-----

Licenses of module/program 'apache2-bin':

-----

Version  
2.4.29-1ubuntu4.13  
Description  
Apache HTTP Server (modules and other binary files)  
Licenses  
[Apache-2.0] [Apache-2.0 or GPL-2+ BSD-2-clause-Darwin BSD-3-clause-Cambridge BSD-3-clause-Smrggrav Cisco Custom] [GPL-2+] [GPL-3+] [GPL-3+ or Custom Haines MD5] [MIT] [PCRE Zeus]

-----

Licenses of module/program 'apache2-data':

-----

Version  
2.4.29-1ubuntu4.13  
Description  
Apache HTTP Server (common files)  
Licenses  
[Apache-2.0] [Apache-2.0 or GPL-2+ BSD-2-clause-Darwin BSD-3-clause-Cambridge BSD-3-clause-Smrggrav Cisco Custom] [GPL-2+] [GPL-3+] [GPL-3+ or Custom Haines MD5] [MIT] [PCRE Zeus]

-----

Licenses of module/program 'apache2-doc':

-----

Version  
2.4.29-1ubuntu4.13  
Description  
Apache HTTP Server (on-site documentation)  
Licenses  
[Apache-2.0] [Apache-2.0 or GPL-2+ BSD-2-clause-Darwin BSD-3-clause-Cambridge BSD-3-clause-Smrggrav Cisco Custom] [GPL-2+] [GPL-3+] [GPL-3+ or Custom Haines MD5] [MIT] [PCRE Zeus]

-----

Licenses of module/program 'apache2-suexec-custom':

-----

Version  
2.4.29-1ubuntu4.13  
Description  
Apache HTTP Server configurable suexec program for mod\_suexe  
Licenses  
[Apache-2.0] [Apache-2.0 or GPL-2+ BSD-2-clause-Darwin BSD-3-clause-Cambridge BSD-3-clause-Smrggrav Cisco Custom] [GPL-2+] [GPL-3+] [GPL-3+ or Custom Haines MD5] [MIT] [PCRE Zeus]

-----

Licenses of module/program 'apache2-utils':

-----

Version

2.4.29-1ubuntu4.13

Description

Apache HTTP Server (utility programs for web servers)

Licenses

[Apache-2.0] [Apache-2.0 or GPL-2+ BSD-2-clause-Darwin BSD-3-clause-Cambridge BSD-3-clause-Smgrav Cisco Custom] [GPL-2+] [GPL-3+] [GPL-3+ or Custom Haines MD5] [MIT] [PCRE Zeus]

-----

Licenses of module/program 'apparmor':

-----

Version

2.12-4ubuntu5.1

Description

user-space parser utility for AppArmor

Licenses

[BSD-3-clause] [BSD-3-clause or GPL-2+] [GPL-2] [GPL-2+] [LGPL-2.1+]

-----

Licenses of module/program 'apport':

-----

Version

2.20.9-0ubuntu7.14

Description

automatically generate crash reports for debugging

Licenses

[GPL-2+]

-----

Licenses of module/program 'apport-symptoms':

-----

Version

0.20

Description

symptom scripts for apport

Licenses

[GPL-2+]

-----

Licenses of module/program 'apt':

-----

Version

1.6.12

Description

commandline package manager

Licenses

[GPL-2]

-----

Licenses of module/program 'apt-show-versions':

-----

Version

0.22.7ubuntu1

Description

lists available package versions with distribution

Licenses

[GPL-2]

-----

Licenses of module/program 'apt-transport-https':

-----

Version  
1.6.12  
Description  
transitional package for https support  
Licenses  
[GPL-2]

-----

Licenses of module/program 'apt-utils':

-----

Version  
1.6.12  
Description  
package management related utility programs  
Licenses  
[GPL-2]

-----

Licenses of module/program 'at':

-----

Version  
3.1.20-3.1ubuntu2  
Description  
Delayed job execution and batch processing  
Licenses  
[GPL-2+] [GPL-3+] [ISC]

-----

Licenses of module/program 'at-spi2-core':

-----

Version  
2.28.0-1  
Description  
Assistive Technology Service Provider Interface (dbus core)  
Licenses  
[AFL-2.1] [AFL-2.1 or GPL-2+] [GPL-2] [GPL-2+] [LGPL-2+ public-domain]

-----

Licenses of module/program 'avahi-autoipd':

-----

Version  
0.7-3.1ubuntu1.2  
Description  
Avahi IPv4LL network address configuration daemon  
Licenses  
[GPL] [GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'avahi-daemon':

-----

Version  
0.7-3.1ubuntu1.2  
Description  
Avahi mDNS/DNS-SD daemon  
Licenses  
[GPL] [GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'awstats':

-----

Version  
7.6+dfsg-2  
Description  
powerful and featureful web server log analyzer  
Licenses  
[Apache-2.0] [CC-BY-3.0] [GPL-1+] [GPL-3+]

-----

Licenses of module/program 'base-files':

-----

Version  
10.1ubuntu2.8  
Description  
Debian base system miscellaneous files  
Licenses  
[GPL]

-----

Licenses of module/program 'base-passwd':

-----

Version  
3.5.44  
Description  
Debian base system master password and group files  
Licenses  
[GPL-2]

-----

Licenses of module/program 'bash':

-----

Version  
4.4.18-2ubuntu1.2  
Description  
GNU Bourne Again SHell  
Licenses  
[GPL-3]

-----

Licenses of module/program 'bash-completion':

-----

Version  
1:2.8-1ubuntu1  
Description  
programmable completion for the bash shell  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'bc':

-----

Version  
1.07.1-2  
Description  
GNU bc arbitrary precision calculator language  
Licenses  
[GPL-2.0+] [GPL-2.0+ with Texinfo exception permissive permissive' public-domain X11]

-----

Licenses of module/program 'bcache-tools':

-----

Version  
1.0.8-2build1  
Description  
bcache userspace tools  
Licenses  
[GPL-2] [GPL-2+] [PostgreSQL]

-----

Licenses of module/program 'bind9':

-----

Version  
1:9.11.3+dfsg-1ubuntu1.11  
Description  
Internet Domain Name Server  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'bind9-host':

-----

Version  
1:9.11.3+dfsg-1ubuntu1.11  
Description  
DNS lookup utility (deprecated)  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'bind9utils':

-----

Version  
1:9.11.3+dfsg-1ubuntu1.11  
Description  
Utilities for BIND  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'binutils':

-----

Version  
2.30-21ubuntu1~18.04.3  
Description  
GNU assembler, linker and binary utilities  
Licenses  
[GFDL] [GPL] [LGPL]

-----

Licenses of module/program 'binutils-common:amd64':

-----

Version  
2.30-21ubuntu1~18.04.3  
Description  
Common files for the GNU assembler, linker and binary utilit  
Licenses  
[GFDL] [GPL] [LGPL]

-----

Licenses of module/program 'binutils-x86-64-linux-gnu':

-----

Version  
2.30-21ubuntu1~18.04.3  
Description  
GNU binary utilities, for x86-64-linux-gnu target  
Licenses  
[GFDL] [GPL] [LGPL]

-----

Licenses of module/program 'bridge-utils':

-----

Version  
1.5-15ubuntu1  
Description  
Utilities for configuring the Linux Ethernet bridge  
Licenses  
[GPL-2]

-----

Licenses of module/program 'bsdmainutils':

-----

Version  
11.1.2ubuntu1  
Description  
collection of more utilities from FreeBSD  
Licenses  
[unknown]

-----

Licenses of module/program 'bsdutils':

-----

Version  
1:2.31.1-0.4ubuntu3.6  
Description  
basic utilities from 4.BSD-Lite  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----

Licenses of module/program 'btrfs-progs':

-----

Version  
4.15.1-1build1  
Description  
Checksumming Copy on Write Filesystem utilities  
Licenses  
[GPL-2] [GPL-2+] [TLP-4]

-----

Licenses of module/program 'btrfs-tools':

-----

Version  
4.15.1-1build1  
Description  
transitional dummy package  
Licenses  
[GPL-2] [GPL-2+] [TLP-4]



-----

Licenses of module/program 'busybox-initramfs':

-----

Version  
1:1.27.2-2ubuntu3.2  
Description  
Standalone shell setup for initramfs  
Licenses  
[GPL-2]

-----

Licenses of module/program 'busybox-static':

-----

Version  
1:1.27.2-2ubuntu3.2  
Description  
Standalone rescue shell with tons of builtin utilities  
Licenses  
[GPL-2]

-----

Licenses of module/program 'byobu':

-----

Version  
5.125-0ubuntu1  
Description  
text window manager, shell multiplexer, integrated DevOps en  
Licenses  
[GPL-3]

-----

Licenses of module/program 'bzip2':

-----

Version  
1.0.6-8.1ubuntu0.2  
Description  
high-quality block-sorting file compressor - utilities  
Licenses  
[GPL-2]

-----

Licenses of module/program 'ca-certificates':

-----

Version  
20180409  
Description  
Common CA certificates  
Licenses  
[GPL-2+] [MPL-2.0]

-----

Licenses of module/program 'ca-certificates-java':

-----

Version  
20180516ubuntu1~18.04.1  
Description  
Common CA certificates (JKS keystore)  
Licenses  
[GPL]

-----

Licenses of module/program 'clamav':

-----

Version

0.102.2+dfsg-0ubuntu0.18.04.1

Description

anti-virus utility for Unix - command-line interface

Licenses

[Apache-2.0 with GPL exception] [BSD-2-clause] [BSD-3-clause Expat GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [GPL-2+ with Libtool exception] [GPL-2 with OpenSSL exception] [GPL-3+ with Autoconf exception] [GPL-3+ with Bison exception] [ISC] [LGPL-2.1] [LGPL-2+ with Libtool exception] [LZW nsis-bzip2 permissive permissive~1 permissive~2 permissive~3 permissive~4 public-domain public-domain~1 public-domain~2 public-domain~3 Zlib]

-----

Licenses of module/program 'clamav-base':

-----

Version

0.102.2+dfsg-0ubuntu0.18.04.1

Description

anti-virus utility for Unix - base package

Licenses

[Apache-2.0 with GPL exception] [BSD-2-clause] [BSD-3-clause Expat GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [GPL-2+ with Libtool exception] [GPL-2 with OpenSSL exception] [GPL-3+ with Autoconf exception] [GPL-3+ with Bison exception] [ISC] [LGPL-2.1] [LGPL-2+ with Libtool exception] [LZW nsis-bzip2 permissive permissive~1 permissive~2 permissive~3 permissive~4 public-domain public-domain~1 public-domain~2 public-domain~3 Zlib]

-----

Licenses of module/program 'clamav-daemon':

-----

Version

0.102.2+dfsg-0ubuntu0.18.04.1

Description

anti-virus utility for Unix - scanner daemon

Licenses

[Apache-2.0 with GPL exception] [BSD-2-clause] [BSD-3-clause Expat GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [GPL-2+ with Libtool exception] [GPL-2 with OpenSSL exception] [GPL-3+ with Autoconf exception] [GPL-3+ with Bison exception] [ISC] [LGPL-2.1] [LGPL-2+ with Libtool exception] [LZW nsis-bzip2 permissive permissive~1 permissive~2 permissive~3 permissive~4 public-domain public-domain~1 public-domain~2 public-domain~3 Zlib]

-----

Licenses of module/program 'clamav-docs':

-----

Version

0.102.2+dfsg-0ubuntu0.18.04.1

Description

anti-virus utility for Unix - documentation

Licenses

[Apache-2.0 with GPL exception] [BSD-2-clause] [BSD-3-clause Expat GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [GPL-2+ with Libtool exception] [GPL-2 with OpenSSL exception] [GPL-3+ with Autoconf exception] [GPL-3+ with Bison exception] [ISC] [LGPL-2.1] [LGPL-2+ with Libtool exception] [LZW nsis-bzip2 permissive permissive~1 permissive~2 permissive~3 permissive~4 public-domain public-domain~1 public-domain~2 public-domain~3 Zlib]

-----

Licenses of module/program 'clamav-freshclam':

-----

Version

0.102.2+dfsg-0ubuntu0.18.04.1

Description

anti-virus utility for Unix - virus database update utility

Licenses

[Apache-2.0 with GPL exception] [BSD-2-clause] [BSD-3-clause Expat GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [GPL-2+ with Libtool exception] [GPL-2 with OpenSSL exception] [GPL-3+ with Autoconf exception] [GPL-3+ with Bison exception] [ISC] [LGPL-2.1] [LGPL-2+ with Libtool exception] [LZW nsis-bzip2 permissive permissive~1 permissive~2 permissive~3 permissive~4 public-domain public-domain~1 public-domain~2

public-domain~3 Zlib]

-----

Licenses of module/program 'clamav-testfiles':

-----

Version

0.102.2+dfsg-0ubuntu0.18.04.1

Description

anti-virus utility for Unix - test files

Licenses

[Apache-2.0 with GPL exception] [BSD-2-clause] [BSD-3-clause Expat GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [GPL-2+ with Libtool exception] [GPL-2 with OpenSSL exception] [GPL-3+ with Autoconf exception] [GPL-3+ with Bison exception] [ISC] [LGPL-2.1] [LGPL-2+ with Libtool exception] [LZW nsis-bzip2 permissive permissive~1 permissive~2 permissive~3 permissive~4 public-domain public-domain~1 public-domain~2 public-domain~3 Zlib]

-----

Licenses of module/program 'clamdscan':

-----

Version

0.102.2+dfsg-0ubuntu0.18.04.1

Description

anti-virus utility for Unix - scanner client

Licenses

[Apache-2.0 with GPL exception] [BSD-2-clause] [BSD-3-clause Expat GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [GPL-2+ with Libtool exception] [GPL-2 with OpenSSL exception] [GPL-3+ with Autoconf exception] [GPL-3+ with Bison exception] [ISC] [LGPL-2.1] [LGPL-2+ with Libtool exception] [LZW nsis-bzip2 permissive permissive~1 permissive~2 permissive~3 permissive~4 public-domain public-domain~1 public-domain~2 public-domain~3 Zlib]

-----

Licenses of module/program 'clog':

-----

Version

1.3.0-1

Description

colorizing log tail utility

Licenses

[GPL-3+] [MIT]

-----

Licenses of module/program 'cloud-guest-utils':

-----

Version

0.30-0ubuntu5

Description

cloud guest utilities

Licenses

[GPL-3]

-----

Licenses of module/program 'cloud-initramfs-copymods':

-----

Version

0.40ubuntu1.1

Description

copy initramfs modules into root filesystem for later use

Licenses

[GPL-3.0+]

-----

Licenses of module/program 'cloud-initramfs-dyn-netconf':

-----

Version  
0.40ubuntu1.1  
Description  
write a network interface file in /run for BOOTIF  
Licenses  
[GPL-3.0+]

-----

Licenses of module/program 'command-not-found':

-----

Version  
18.04.5  
Description  
Suggest installation of packages in interactive bash session  
Licenses  
[GPL]

-----

Licenses of module/program 'command-not-found-data':

-----

Version  
18.04.5  
Description  
Set of data files for command-not-found.  
Licenses  
[GPL]

-----

Licenses of module/program 'composer':

-----

Version  
1.6.3-1  
Description  
dependency manager for PHP  
Licenses  
[BSD-2-Clause] [Expat]

-----

Licenses of module/program 'console-setup':

-----

Version  
1.178ubuntu2.9  
Description  
console font and keymap setup program  
Licenses  
[GPL-2]

-----

Licenses of module/program 'console-setup-linux':

-----

Version  
1.178ubuntu2.9  
Description  
Linux specific part of console-setup  
Licenses  
[GPL-2]

-----

Licenses of module/program 'coreutils':

-----

Version  
8.28-1ubuntu1  
Description  
GNU core utilities  
Licenses  
[GPL-3]

-----

Licenses of module/program 'cpio':

-----

Version  
2.12+dfsg-6ubuntu0.18.04.1  
Description  
GNU cpio -- a program to manage archives of files  
Licenses  
[GPL-3]

-----

Licenses of module/program 'cpp':

-----

Version  
4:7.4.0-1ubuntu2.3  
Description  
GNU C preprocessor (cpp)  
Licenses  
[GPL]

-----

Licenses of module/program 'cpp-7':

-----

Version  
7.5.0-3ubuntu1~18.04  
Description  
GNU C preprocessor  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'crda':

-----

Version  
3.18-1build1  
Description  
wireless Central Regulatory Domain Agent  
Licenses  
copyleft-next-0.3.0 [ISC]

-----

Licenses of module/program 'cron':

-----

Version  
3.0pl1-128.1ubuntu1  
Description  
process scheduling daemon  
Licenses  
[Artistic] [GPL-2+] [ISC] Paul-Vixie's-license

-----

Licenses of module/program 'cryptsetup':

-----

Version  
2:2.0.2-1ubuntu1.1  
Description  
disk encryption support - startup scripts  
Licenses  
[Apache-2.0] [CC0] [CC0 or Apache-2.0] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'cryptsetup-bin':

-----

Version  
2:2.0.2-1ubuntu1.1  
Description  
disk encryption support - command line tools  
Licenses  
[Apache-2.0] [CC0] [CC0 or Apache-2.0] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'curl':

-----

Version  
7.58.0-2ubuntu3.8  
Description  
command line tool for transferring data with URL syntax  
Licenses  
[Apache-2.0] [CC0] [CC0 or Apache-2.0] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'dash':

-----

Version  
0.5.8-2.10  
Description  
POSIX-compliant shell  
Licenses  
[GPL]

-----

Licenses of module/program 'db-util':

-----

Version  
1:5.3.21~exp1ubuntu2  
Description  
Berkeley Database Utilities  
Licenses  
[GPL-3]

-----

Licenses of module/program 'db5.3-util':

-----

Version  
5.3.28-13.1ubuntu1.1  
Description  
Berkeley v5.3 Database Utilities  
Licenses  
[unknown]

-----

Licenses of module/program 'dbconfig-common':

-----

Version  
2.0.9  
Description  
framework that helps packages to manage databases  
Licenses  
[AFL-2.1] [GPL-2+]

-----

Licenses of module/program 'dbus':

-----

Version  
1.12.2-1ubuntu1.1  
Description  
simple interprocess messaging system (daemon and utilities)  
Licenses  
[AFL-2.1] [BSD-3-clause BSD-3-clause-generic Expat g10-permissive] [GPL-2+] [GPL-2+ or AFL-2.1] [GPL-2+ or AFL-2.1, Tcl-BSDish]

-----

Licenses of module/program 'dbus-user-session':

-----

Version  
1.12.2-1ubuntu1.1  
Description  
simple interprocess messaging system (systemd --user integra  
Licenses  
[AFL-2.1] [BSD-3-clause BSD-3-clause-generic Expat g10-permissive] [GPL-2+] [GPL-2+ or AFL-2.1] [GPL-2+ or AFL-2.1, Tcl-BSDish]

-----

Licenses of module/program 'debconf':

-----

Version  
1.5.66ubuntu1  
Description  
Debian configuration management system  
Licenses  
[BSD-2-clause]

-----

Licenses of module/program 'debconf-i18n':

-----

Version  
1.5.66ubuntu1  
Description  
full internationalization support for debconf  
Licenses  
[BSD-2-clause]

-----

Licenses of module/program 'debianutils':

-----

Version  
4.8.4  
Description  
Miscellaneous utilities specific to Debian  
Licenses  
[GPL]

-----

Licenses of module/program 'default-jdk':

-----

Version  
2:1.11-68ubuntu1~18.04.1  
Description  
Standard Java or Java compatible Development Kit  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'default-jdk-headless':

-----

Version  
2:1.11-68ubuntu1~18.04.1  
Description  
Standard Java or Java compatible Development Kit (headless)  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'default-jre':

-----

Version  
2:1.11-68ubuntu1~18.04.1  
Description  
Standard Java or Java compatible Runtime  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'default-jre-headless':

-----

Version  
2:1.11-68ubuntu1~18.04.1  
Description  
Standard Java or Java compatible Runtime (headless)  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'dh-python':

-----

Version  
3.20180325ubuntu2  
Description  
Debian helper tools for packaging Python libraries and appli  
Licenses  
[Expat]

-----

Licenses of module/program 'diffutils':

-----

Version  
1:3.6-1  
Description  
File comparison utilities  
Licenses  
[GFDL] [GPL]

-----

Licenses of module/program 'dirmngr':

-----



Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - network certificate management service  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'distro-info-data':

-----

Version  
0.37ubuntu0.6  
Description  
information about the distributions' releases (data files)  
Licenses  
[ISC]

-----

Licenses of module/program 'dmeventd':

-----

Version  
2:1.02.145-4.1ubuntu3.18.04.2  
Description  
Linux Kernel Device Mapper event daemon  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'dmidecode':

-----

Version  
3.1-1ubuntu0.1  
Description  
SMBIOS/DMI table decoder  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'dmsetup':

-----

Version  
2:1.02.145-4.1ubuntu3.18.04.2  
Description  
Linux Kernel Device Mapper userspace library  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'dns-root-data':

-----

Version  
2018013001  
Description  
DNS root data including root zone and DNSSEC key  
Licenses  
[Expat] ICANN-Public

-----

Licenses of module/program 'dnsmasq-base':

-----

Version  
2.79-1  
Description  
Small caching DNS proxy and DHCP/TFTP server  
Licenses  
[GPL-2] [GPL-3]

-----

Licenses of module/program 'dnstutils':

-----

Version  
1:9.11.3+dfsg-1ubuntu1.11  
Description  
Clients provided with BIND  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'dosfstools':

-----

Version  
4.1-1  
Description  
utilities for making and checking MS-DOS FAT filesystems  
Licenses  
[GPL-3+ public-domain]

-----

Licenses of module/program 'dovecot-core':

-----

Version  
1:2.2.33.2-1ubuntu4.5  
Description  
secure POP3/IMAP server - core files  
Licenses  
[Apache-2.0] [Apache-2.0 or LGPL-2.1 Beerware] [BSD-2-Clause] [BSD-3-Clause] [GPL-2+] [LGPL-2.1] [MIT public-domain-solardiz Unicode-DFS-2015]

-----

Licenses of module/program 'dovecot-imapd':

-----

Version  
1:2.2.33.2-1ubuntu4.5  
Description  
secure POP3/IMAP server - IMAP daemon  
Licenses  
[Apache-2.0] [Apache-2.0 or LGPL-2.1 Beerware] [BSD-2-Clause] [BSD-3-Clause] [GPL-2+] [LGPL-2.1] [MIT public-domain-solardiz Unicode-DFS-2015]

-----

Licenses of module/program 'dovecot-pop3d':

-----

Version  
1:2.2.33.2-1ubuntu4.5  
Description  
secure POP3/IMAP server - POP3 daemon  
Licenses  
[Apache-2.0] [Apache-2.0 or LGPL-2.1 Beerware] [BSD-2-Clause] [BSD-3-Clause] [GPL-2+] [LGPL-2.1] [MIT public-domain-solardiz Unicode-DFS-2015]

-----

Licenses of module/program 'dpkg':

-----

Version  
1.19.0.5ubuntu2.3  
Description  
Debian package management system  
Licenses  
[BSD-2-clause] [GPL-2] [GPL-2+ public-domain-md5 public-domain-s-s-d]

-----

Licenses of module/program 'e2fslibs:amd64':

-----

Version  
1.44.1-1ubuntu1.3  
Description  
transitional package  
Licenses  
[GPL-2] [LGPL-2]

-----

Licenses of module/program 'e2fsprogs':

-----

Version  
1.44.1-1ubuntu1.3  
Description  
ext2/ext3/ext4 file system utilities  
Licenses  
[GPL-2] [LGPL-2]

-----

Licenses of module/program 'e2fsprogs-l10n':

-----

Version  
1.44.1-1ubuntu1.3  
Description  
ext2/ext3/ext4 file system utilities - translations  
Licenses  
[GPL-2]

-----

Licenses of module/program 'ebtables':

-----

Version  
2.0.10.4-3.5ubuntu2.18.04.3  
Description  
Ethernet bridge frame table administration  
Licenses  
[GPL-2]

-----

Licenses of module/program 'ed':

-----

Version  
1.10-2.1  
Description  
classic UNIX line editor  
Licenses  
[GFDL-1.2] [GPL-3]

-----

Licenses of module/program 'eject':

-----

Version  
2.1.5+deb1+cvs20081104-13.2  
Description  
ejects CDs and operates CD-Changers under Linux  
Licenses  
[GPL-2]

-----

Licenses of module/program 'ethtool':

-----

Version  
1:4.15-0ubuntu1  
Description  
display or change Ethernet device settings  
Licenses  
[GPL-2]

-----

Licenses of module/program 'fail2ban':

-----

Version  
0.10.2-2  
Description  
ban hosts that cause multiple authentication errors  
Licenses  
[GPL-2]

-----

Licenses of module/program 'fdisk':

-----

Version  
2.31.1-0.4ubuntu3.6  
Description  
collection of partitioning utilities  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----

Licenses of module/program 'file':

-----

Version  
1:5.32-2ubuntu0.3  
Description  
Recognize the type of data in a file using "magic" numbers  
Licenses  
[BSD-2-Clause-alike BSD-2-Clause-netbsd BSD-2-Clause-regents] [MIT-Old-Style-with-legal-disclaimer-2 public-domain]

-----

Licenses of module/program 'findutils':

-----

Version  
4.6.0+git+20170828-2  
Description  
utilities for finding files--find, xargs  
Licenses  
[GFDL-1.3] [GPL-3]

-----

Licenses of module/program 'firewalld':

-----

Version  
0.4.4.6-1  
Description  
dynamically managed firewall with support for network zones  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'fontconfig':

-----

Version  
2.12.6-0ubuntu2  
Description  
generic font configuration library - support binaries  
Licenses  
[unknown]

-----

Licenses of module/program 'fontconfig-config':

-----

Version  
2.12.6-0ubuntu2  
Description  
generic font configuration library - configuration  
Licenses  
[unknown]

-----

Licenses of module/program 'fonts-dejavu-core':

-----

Version  
2.37-1  
Description  
Vera font family derivate with additional characters  
Licenses  
bitstream-vera [GPL-2+]

-----

Licenses of module/program 'fonts-dejavu-extra':

-----

Version  
2.37-1  
Description  
Vera font family derivate with additional characters (extra)  
Licenses  
bitstream-vera [GPL-2+]

-----

Licenses of module/program 'fonts-droid-fallback':

-----

Version  
1:6.0.1r16-1.1  
Description  
handheld device font with extensive style and language suppo  
Licenses  
[Apache-2]

-----

Licenses of module/program 'fonts-lato':

-----

Version  
2.0-2  
Description  
sans-serif typeface family font  
Licenses  
[GPL-2+] [OFL-1.1]

-----

Licenses of module/program 'fonts-liberation':

-----

Version  
1:1.07.4-7~18.04.1  
Description  
Fonts with the same metrics as Times, Arial and Courier  
Licenses  
[GPL-2]

-----

Licenses of module/program 'fonts-noto-mono':

-----

Version  
20171026-2  
Description  
"No Tofu" monospaced font family with large Unicode coverage  
Licenses  
[GPL-3+] [SIL-1.1]

-----

Licenses of module/program 'fonts-ubuntu-console':

-----

Version  
0.83-2  
Description  
console version of the Ubuntu Mono font  
Licenses  
[CC-BY-SA-3.0] [GPL-3] [Ubuntu-Font-License-1.0]

-----

Licenses of module/program 'fonts-ubuntu-font-family-conso':

-----

Version  
1:0.83-2  
Description  
console version of the Ubuntu Mono font (transitional packag  
Licenses  
[CC-BY-SA-3.0] [GPL-3] [Ubuntu-Font-License-1.0]

-----

Licenses of module/program 'fping':

-----

Version  
4.0-6  
Description  
sends ICMP ECHO\_REQUEST packets to network hosts  
Licenses  
[BSD-3-Clause-Stanford-Variant Unlicense]

-----

Licenses of module/program 'friendly-recovery':

-----

Version  
0.2.38ubuntu1.1  
Description  
Make recovery boot mode more user-friendly  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'ftp':

-----

Version  
0.17-34  
Description  
classical file transfer client  
Licenses  
[BSD-3-clause]

-----

Licenses of module/program 'fuse':

-----

Version  
2.9.7-1ubuntu1  
Description  
Filesystem in Userspace  
Licenses  
[GPL-2] [GPL-2+] [LGPL-2]

-----

Licenses of module/program 'galera-3':

-----

Version  
25.3.20-1  
Description  
Replication framework for transactional applications  
Licenses  
[BSD-3-clause] [CC-BY-SA-3.0] [GFDL-1.1+] [GFDL-1.1+ or CC-BY-SA-3.0] [GPL-2 other]

-----

Licenses of module/program 'gawk':

-----

Version  
1:4.1.4+dfsg-1build1  
Description  
GNU awk, a pattern scanning and processing language  
Licenses  
[GPL-3+]

-----

Licenses of module/program 'gcc':

-----

Version  
4:7.4.0-1ubuntu2.3  
Description  
GNU C compiler  
Licenses  
[GPL]

-----

Licenses of module/program 'gcc-5-base:amd64':

-----

Version  
5.5.0-12ubuntu1  
Description  
GCC, the GNU Compiler Collection (base package)  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3]

-----

Licenses of module/program 'gcc-6-base:amd64':

-----

Version  
6.5.0-2ubuntu1~18.04  
Description  
GCC, the GNU Compiler Collection (base package)  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3]

-----

Licenses of module/program 'gcc-7':

-----

Version  
7.5.0-3ubuntu1~18.04  
Description  
GNU C compiler  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'gcc-7-base:amd64':

-----

Version  
7.5.0-3ubuntu1~18.04  
Description  
GCC, the GNU Compiler Collection (base package)  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'gcc-8-base:amd64':

-----

Version  
8.4.0-1ubuntu1~18.04  
Description  
GCC, the GNU Compiler Collection (base package)  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'geoip-database':

-----

Version  
20180315-1  
Description  
IP lookup command line tools that use the GeoIP library (cou  
Licenses  
[OpenDataLicense]

-----

Licenses of module/program 'gettext-base':

-----



Version  
0.19.8.1-6ubuntu0.3  
Description  
GNU Internationalization utilities for the base system  
Licenses  
[GFDL] [GPL] [LGPL]

-----  
Licenses of module/program 'ghostscript':

-----  
Version  
9.26~dfsg+0-0ubuntu0.18.04.12  
Description  
interpreter for the PostScript language and for PDF  
Licenses  
[AGPL-3] [AGPL-3+] [AGPL-3+ with font exception] [Apache-2.0] [BSD-2-Clause BSD-3-Clause BSD-3-Clause~Adobe Expat Expat~Ghostgum  
Expat~SunSoft Expat~SunSoft with SunSoft exception FTL GAP~configure] [GPL] [GPL-2] [GPL-2+] [GPL-3+] [ISC] [LGPL-2.1] [NTP~Lucent NTP~Open  
NTP~WSU other public-domain ZLIB]

-----  
Licenses of module/program 'gir1.2-glib-2.0:amd64':

-----  
Version  
1.56.1-1  
Description  
Introspection data for GLib, GObject, Gio and GModule  
Licenses  
[BSD-2-clause] [GPL-2+] [LGPL-2+] [MIT]

-----  
Licenses of module/program 'git':

-----  
Version  
1:2.17.1-1ubuntu0.7  
Description  
fast, scalable, distributed revision control system  
Licenses  
[Apache-2.0] [Boost] [BSD-2-clause dlmalloc EDL-1.0 Expat] [GPL-1+ or Artistic-1] [GPL-2] [GPL-2+] [ISC] [LGPL-2+] [LGPL-2.1+ mingw-runtime]

-----  
Licenses of module/program 'git-man':

-----  
Version  
1:2.17.1-1ubuntu0.7  
Description  
fast, scalable, distributed revision control system (manual)  
Licenses  
[Apache-2.0] [Boost] [BSD-2-clause dlmalloc EDL-1.0 Expat] [GPL-1+ or Artistic-1] [GPL-2] [GPL-2+] [ISC] [LGPL-2+] [LGPL-2.1+ mingw-runtime]

-----  
Licenses of module/program 'gnupg':

-----  
Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - a free PGP replacement  
Licenses  
[BSD-3-clause Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----  
Licenses of module/program 'gnupg-l10n':

-----

Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - localization files  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'gnupg-utils':

-----

Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - utility programs  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'gpg':

-----

Version  
2.2.4-1ubuntu1.2  
Description  
GNU Privacy Guard -- minimalist public key operations  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'gpg-agent':

-----

Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - cryptographic agent  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'gpg-wks-client':

-----

Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - Web Key Service client  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'gpg-wks-server':

-----

Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - Web Key Service server  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'gpgconf':

-----

Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - core configuration utilities  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'gpgsm':

-----

Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - S/MIME version  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'gpgv':

-----

Version  
2.2.4-1ubuntu1.2  
Description  
GNU privacy guard - signature verification tool  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [GPL-3+ or BSD-3-clause] [LGPL-2.1+] [LGPL-3+ permissive RFC-Reference TinySCHEME]

-----

Licenses of module/program 'graphviz':

-----

Version  
2.40.1-2  
Description  
rich set of graph drawing tools  
Licenses  
[EPL-1.0] [MIT] X/MIT zlib-style

-----

Licenses of module/program 'grep':

-----

Version  
3.1-2build1  
Description  
GNU grep, egrep and fgrep  
Licenses  
[GPL-3+]

-----

Licenses of module/program 'groff-base':

-----

Version  
1.22.3-10  
Description  
GNU troff text-formatting system (base system components)  
Licenses  
[GFDL-1.3] [GPL-3]

-----

Licenses of module/program 'grub-common':

-----

Version  
2.02-2ubuntu8.15  
Description  
GRand Unified Bootloader (common files)  
Licenses  
[GPL-3]

-----

Licenses of module/program 'grub-gfxpayload-lists':

-----

Version  
0.7  
Description  
GRUB gfxpayload blacklist  
Licenses  
[GPL-3]

-----

Licenses of module/program 'grub-legacy-ec2':

-----

Version  
1:1  
Description  
Handles update-grub for ec2 instances  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'grub-pc':

-----

Version  
2.02-2ubuntu8.15  
Description  
GRand Unified Bootloader, version 2 (PC/BIOS version)  
Licenses  
[GPL-3]

-----

Licenses of module/program 'grub-pc-bin':

-----

Version  
2.02-2ubuntu8.15  
Description  
GRand Unified Bootloader, version 2 (PC/BIOS binaries)  
Licenses  
[GPL-3]

-----

Licenses of module/program 'grub2-common':

-----

Version  
2.02-2ubuntu8.15  
Description  
GRand Unified Bootloader (common files for version 2)  
Licenses  
[GPL-3]

-----

Licenses of module/program 'gsfonts':

-----

Version  
1:8.11+urwcyr1.0.7~pre44-4.4  
Description  
Fonts for the Ghostscript interpreter(s)  
Licenses  
[GPL]

-----

Licenses of module/program 'guile-2.0-libs:amd64':

-----

Version  
2.0.13+1-5ubuntu0.1  
Description  
Core Guile libraries  
Licenses  
[LGPL]

-----

Licenses of module/program 'gzip':

-----

Version  
1.6-5ubuntu1  
Description  
GNU compression utilities  
Licenses  
[GPL]

-----

Licenses of module/program 'hdparm':

-----

Version  
9.54+ds-1  
Description  
tune hard disk parameters for high performance  
Licenses  
[BSD-2-clause] [GPL-2+] [GPL-2+ or BSD-2-clause hdparm]

-----

Licenses of module/program 'hicolor-icon-theme':

-----

Version  
0.17-2  
Description  
default fallback theme for FreeDesktop.org icon themes  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'hostname':

-----

Version  
3.20  
Description  
utility to set/show the host name or domain name  
Licenses  
[GPL-2]

-----

Licenses of module/program 'htop':

-----

Version  
2.1.0-3  
Description  
interactive processes viewer  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'hwinfo':

-----

Version  
21.52-1  
Description  
Hardware identification system  
Licenses  
[GPL-2]

-----

Licenses of module/program 'ifenslave':

-----

Version  
2.9ubuntu1  
Description  
configure network interfaces for parallel routing (bonding)  
Licenses  
[GPL-3+]

-----

Licenses of module/program 'ifupdown':

-----

Version  
0.8.17ubuntu1.1  
Description  
high level tools to configure network interfaces  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'imagemagick':

-----

Version  
8:6.9.7.4+dfsg-16ubuntu6.8  
Description  
image manipulation programs -- binaries  
Licenses  
[BSD-with-FSF-change-public-domain] [GNU-All-Permissive-License] [GPL-2+] [GPL2+-with-Autoconf-Macros-exception] [GPL3+-with-Autoconf-Macros-exception] [GPL3+-with-Autoconf-Macros-exception-GNU] [ImageMagick ImageMagickLicensePartEZXML ImageMagickLicensePartFIG ImageMagickLicensePartGsview ImageMagickLicensePartOpenSSH ImageMagickPartGraphicsMagick ImageMagickPartlibjpeg ImageMagickPartlibsquish] [LGPL-3+ Magick++ Perlliklicense TatcherUlrichPublicDomain]

-----

Licenses of module/program 'imagemagick-6-common':

-----

Version  
8:6.9.7.4+dfsg-16ubuntu6.8  
Description  
image manipulation programs -- infrastructure  
Licenses  
[BSD-with-FSF-change-public-domain] [GNU-All-Permissive-License] [GPL-2+] [GPL2+-with-Autoconf-Macros-exception] [GPL3+-with-Autoconf-Macros-exception] [GPL3+-with-Autoconf-Macros-exception-GNU] [ImageMagick ImageMagickLicensePartEZXML ImageMagickLicensePartFIG]

ImageMagickLicensePartGsview ImageMagickLicensePartOpenSSH ImageMagickPartGraphicsMagick ImageMagickPartlibjpeg  
ImageMagickPartlibsquish] [LGPL-3+ Magick++ Perlliklicense TatcherUlrichPublicDomain]

-----

Licenses of module/program 'imagemagick-6.q16':

-----

Version  
8:6.9.7.4+dfsg-16ubuntu6.8  
Description  
image manipulation programs -- quantum depth Q16  
Licenses  
[BSD-with-FSF-change-public-domain] [GNU-All-Permissive-License] [GPL-2+] [GPL2+-with-Autoconf-Macros-exception] [GPL3+-with-Autoconf-Macros-exception] [GPL3+-with-Autoconf-Macros-exception-GNU] [ImageMagick ImageMagickLicensePartEZXML ImageMagickLicensePartFIG  
ImageMagickLicensePartGsview ImageMagickLicensePartOpenSSH ImageMagickPartGraphicsMagick ImageMagickPartlibjpeg  
ImageMagickPartlibsquish] [LGPL-3+ Magick++ Perlliklicense TatcherUlrichPublicDomain]

-----

Licenses of module/program 'info':

-----

Version  
6.5.0.dfsg.1-2  
Description  
Standalone GNU Info documentation browser  
Licenses  
[GPL-3]

-----

Licenses of module/program 'init':

-----

Version  
1.51  
Description  
metapackage ensuring an init system is installed  
Licenses  
[BSD-3-clause] [GPL-2+]

-----

Licenses of module/program 'init-system-helpers':

-----

Version  
1.51  
Description  
helper tools for all init systems  
Licenses  
[BSD-3-clause] [GPL-2+]

-----

Licenses of module/program 'initramfs-tools':

-----

Version  
0.130ubuntu3.9  
Description  
generic modular initramfs generator (automation)  
Licenses  
[GPL-2]

-----

Licenses of module/program 'initramfs-tools-bin':

-----

Version

0.130ubuntu3.9

Description

binaries used by initramfs-tools

Licenses

[GPL-2]

-----

Licenses of module/program 'initramfs-tools-core':

-----

Version

0.130ubuntu3.9

Description

generic modular initramfs generator (core tools)

Licenses

[GPL-2]

-----

Licenses of module/program 'install-info':

-----

Version

6.5.0.dfsg.1-2

Description

Manage installed documentation in info format

Licenses

[GPL-3]

-----

Licenses of module/program 'installation-report':

-----

Version

2.62ubuntu1

Description

system installation report

Licenses

[GPL-2]

-----

Licenses of module/program 'intel-microcode':

-----

Version

3.20191115.1ubuntu0.18.04.2

Description

Processor microcode firmware for Intel CPUs

Licenses

[GPL-2]

-----

Licenses of module/program 'iperf':

-----

Version

2.0.10+dfsg1-1ubuntu0.18.04.2

Description

Internet Protocol bandwidth measuring tool

Licenses

[GPL-2+] [ISC] [LGPL-2+] [MIT] [NCSA]

-----

Licenses of module/program 'iproute2':

-----

Version



4.15.0-2ubuntu1

Description  
networking and traffic control tools  
Licenses  
[GPL-2]

-----

Licenses of module/program 'ipset':

-----

Version  
6.34-1  
Description  
administration tool for kernel IP sets  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'iptables':

-----

Version  
1.6.1-2ubuntu2  
Description  
administration tools for packet filtering and NAT  
Licenses  
[Artistic-2 custom] [GPL-2] [GPL-2+]

-----

Licenses of module/program 'iputils-ping':

-----

Version  
3:20161105-1ubuntu3  
Description  
Tools to test the reachability of network hosts  
Licenses  
[GPL]

-----

Licenses of module/program 'iputils-tracepath':

-----

Version  
3:20161105-1ubuntu3  
Description  
Tools to trace the network path to a remote host  
Licenses  
[GPL]

-----

Licenses of module/program 'irqbalance':

-----

Version  
1.3.0-0.1ubuntu0.18.04.1  
Description  
Daemon to balance interrupts for SMP systems  
Licenses  
[GPL]

-----

Licenses of module/program 'isc-dhcp-client':

-----

Version

4.3.5-3ubuntu7.1

Description

DHCP client for automatically obtaining an IP address

Licenses

[GPL-2] [ISC]

-----

Licenses of module/program 'isc-dhcp-common':

-----

Version

4.3.5-3ubuntu7.1

Description

common manpages relevant to all of the isc-dhcp packages

Licenses

[GPL-2] [ISC]

-----

Licenses of module/program 'iso-codes':

-----

Version

3.79-1

Description

ISO language, territory, currency, script codes and their tr

Licenses

[LGPL-2.1+]

-----

Licenses of module/program 'iucode-tool':

-----

Version

2.3.1-1

Description

Intel processor microcode tool

Licenses

[Expat~X Expat~X with X exception] [GAP~configure GAP~INSTALL GAP~m4reqdef GAP~Makefile] [GPL-2.0+] [GPL-2.0+ with Autoconf exception] [GPL-3.0+] [GPL3.0+ with Autoconf exception GPL-3.0+ with Autoconf macro archive exception]

-----

Licenses of module/program 'iw':

-----

Version

4.14-0.1

Description

tool for configuring Linux wireless devices

Licenses

[ISC]

-----

Licenses of module/program 'jailkit':

-----

Version

2.19-1

Description

chroot jail utilities

Licenses

[unknown]

-----

Licenses of module/program 'java-common':

-----

Version  
0.68ubuntu1~18.04.1  
Description  
Base package for Java runtimes  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'javascript-common':

-----

Version  
11  
Description  
Base support for JavaScript library packages  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'jsonlint':

-----

Version  
1.7.1-1  
Description  
validating parser of JSON data structures  
Licenses  
[Expat]

-----

Licenses of module/program 'kbd':

-----

Version  
2.0.4-2ubuntu1  
Description  
Linux console font and keytable utilities  
Licenses  
[GPL-2+ GPL-2-with-exceptions GPL-any]

-----

Licenses of module/program 'keyboard-configuration':

-----

Version  
1.178ubuntu2.9  
Description  
system-wide keyboard preferences  
Licenses  
[GPL-2]

-----

Licenses of module/program 'klibc-utils':

-----

Version  
2.0.4-9ubuntu2  
Description  
small utilities built with klibc for early boot  
Licenses  
[GPL-2]

-----

Licenses of module/program 'kmod':

-----

Version  
24-1ubuntu3.2  
Description  
tools for managing Linux kernel modules  
Licenses  
[GPL-2 LGPL-2.1]

-----

Licenses of module/program 'krb5-locales':

-----

Version  
1.16-2ubuntu0.1  
Description  
internationalization support for MIT Kerberos  
Licenses  
[GPL-2]

-----

Licenses of module/program 'landscape-common':

-----

Version  
18.01-0ubuntu3.5  
Description  
Landscape administration system client - Common files  
Licenses  
[GPL-2]

-----

Licenses of module/program 'language-pack-en':

-----

Version  
1:18.04+20190718  
Description  
translation updates for language English  
Licenses  
[GPL]

-----

Licenses of module/program 'language-pack-en-base':

-----

Version  
1:18.04+20180712  
Description  
translations for language English  
Licenses  
[GPL]

-----

Licenses of module/program 'language-selector-common':

-----

Version  
0.188.3  
Description  
Language selector for Ubuntu  
Licenses  
[GPL-2]

-----

Licenses of module/program 'laptop-detect':

-----

Version  
0.16  
Description  
system chassis type checker  
Licenses  
[BSD-3-Clause]

-----

Licenses of module/program 'less':

-----

Version  
487-0.1  
Description  
pager program similar to more  
Licenses  
[GPL-3]

-----

Licenses of module/program 'libaccountsservice0:amd64':

-----

Version  
0.6.45-1ubuntu1  
Description  
query and manipulate user account information - shared libra  
Licenses  
[GPL-2+] [GPL-3+]

-----

Licenses of module/program 'libacl1:amd64':

-----

Version  
2.2.52-3build1  
Description  
Access control list shared library  
Licenses  
[GPL] [LGPL-2.1]

-----

Licenses of module/program 'libaio1:amd64':

-----

Version  
0.3.110-5ubuntu0.1  
Description  
Linux kernel AIO access library - shared library  
Licenses  
[LGPL-2.1+]

-----

Licenses of module/program 'libalgorithm-c3-perl':

-----

Version  
0.10-1  
Description  
Perl module for merging hierarchies using the C3 algorithm  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libann0':

-----

Version  
1.1.2+doc-6  
Description  
Approximate Nearest Neighbor Searching library  
Licenses  
[GPL-3.0+] [LGPL-2.1+]

-----

Licenses of module/program 'libapache2-mod-fcgid':

-----

Version  
1:2.3.9-1  
Description  
FastCGI interface module for Apache 2  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'libapache2-mod-perl2':

-----

Version  
2.0.10-2ubuntu3.18.04.1  
Description  
Integration of perl with the Apache2 web server  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'libapache2-mod-php7.2':

-----

Version  
7.2.24-0ubuntu0.18.04.4  
Description  
server-side, HTML-embedded scripting language (Apache 2 modu  
Licenses  
[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic BSD-3-clause BSD-4-clause BSD-TSRM] [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+]  
[OpenLDAP] [PHP-3.0] [PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'libapache2-reload-perl':

-----

Version  
0.13-1  
Description  
module for reloading Perl modules when changed on disk  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'libapparmor-perl':

-----

Version  
2.12-4ubuntu5.1  
Description  
AppArmor library Perl bindings  
Licenses  
[BSD-3-clause] [BSD-3-clause or GPL-2+] [GPL-2] [GPL-2+] [LGPL-2.1+]

-----

Licenses of module/program 'libapparmor1:amd64':

-----

Version  
2.12-4ubuntu5.1  
Description  
changehat AppArmor library  
Licenses  
[BSD-3-clause] [BSD-3-clause or GPL-2+] [GPL-2] [GPL-2+] [LGPL-2.1+]

-----

Licenses of module/program 'libapr1:amd64':

-----

Version  
1.6.3-2  
Description  
Apache Portable Runtime Library  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'libaprutil1:amd64':

-----

Version  
1.6.1-2  
Description  
Apache Portable Runtime Utility Library  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'libaprutil1-dbd-sqlite3:amd64':

-----

Version  
1.6.1-2  
Description  
Apache Portable Runtime Utility Library - SQLite3 Driver  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'libaprutil1-ldap:amd64':

-----

Version  
1.6.1-2  
Description  
Apache Portable Runtime Utility Library - LDAP Driver  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'libapt-inst2.0:amd64':

-----

Version  
1.6.12  
Description  
deb package format runtime library  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libapt-pkg-perl':

-----

Version  
0.1.33build1  
Description  
Perl interface to libapt-pkg  
Licenses  
[GPL]

-----

Licenses of module/program 'libapt-pkg5.0:amd64':

-----

Version  
1.6.12  
Description  
package management runtime library  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libarchive13:amd64':

-----

Version  
3.2.2-3.1ubuntu0.6  
Description  
Multi-format archive and compression library (shared library)  
Licenses  
[Apache-2.0] [BSD-124-clause-UCB BSD-1-clause-UCB BSD-2-clause BSD-3-clause-UCB BSD-4-clause-UCB] [Expat PD]

-----

Licenses of module/program 'libargon2-0:amd64':

-----

Version  
0~20161029-1.1  
Description  
memory-hard hashing function - runtime library  
Licenses  
[Apache-2.0] [CC0] [CC0 or Apache-2.0]

-----

Licenses of module/program 'libasan4:amd64':

-----

Version  
7.5.0-3ubuntu1~18.04  
Description  
AddressSanitizer -- a fast memory error detector  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libasn1-8-heimdal:amd64':

-----

Version  
7.5.0+dfsg-1  
Description  
Heimdal Kerberos - ASN.1 library  
Licenses  
[BSD-3-clause custom] [GPL-2+ none]

-----

Licenses of module/program 'libasound2:amd64':

-----



Version  
1.1.3-5ubuntu0.5  
Description  
shared library for ALSA applications  
Licenses  
[LPGl-2.1+]

-----

Licenses of module/program 'libasound2-data':

-----

Version  
1.1.3-5ubuntu0.5  
Description  
Configuration files and profiles for ALSA drivers  
Licenses  
[LPGl-2.1+]

-----

Licenses of module/program 'libassuan0:amd64':

-----

Version  
2.5.1-2  
Description  
IPC library for the GnuPG components  
Licenses  
[GAP GAP~FSF] [GPL-2+] [GPL-2+ with libtool exception] [GPL-3+] [LGPL-2.1+] [LGPL-3+]

-----

Licenses of module/program 'libasyncls0:amd64':

-----

Version  
0.8-6  
Description  
Asynchronous name service query library  
Licenses  
[LGPL-2.1+]

-----

Licenses of module/program 'libatk-bridge2.0-0:amd64':

-----

Version  
2.26.2-1  
Description  
AT-SPI 2 toolkit bridge - shared library  
Licenses  
[Expat] [GPL-2] [GPL-2+] [GPL-3] [LGPL-2+ Unlimited]

-----

Licenses of module/program 'libatk-wrapper-java':

-----

Version  
0.33.3-20ubuntu0.1  
Description  
ATK implementation for Java using JNI  
Licenses  
[GPL-3] [LGPL-2.1+]

-----

Licenses of module/program 'libatk-wrapper-java-jni:amd64':

-----

Version  
0.33.3-20ubuntu0.1  
Description  
ATK implementation for Java using JNI (JNI bindings)  
Licenses  
[GPL-3] [LGPL-2.1+]

-----

Licenses of module/program 'libatk1.0-0:amd64':

-----

Version  
2.28.1-1  
Description  
ATK accessibility toolkit  
Licenses  
[LGPL-2]

-----

Licenses of module/program 'libatk1.0-data':

-----

Version  
2.28.1-1  
Description  
Common files for the ATK accessibility toolkit  
Licenses  
[LGPL-2]

-----

Licenses of module/program 'libatm1:amd64':

-----

Version  
1:2.5.1-2build1  
Description  
shared library for ATM (Asynchronous Transfer Mode)  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libatomic1:amd64':

-----

Version  
8.4.0-1ubuntu1~18.04  
Description  
support library providing \_\_atomic built-in functions  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libatspi2.0-0:amd64':

-----

Version  
2.28.0-1  
Description  
Assistive Technology Service Provider Interface - shared lib  
Licenses  
[AFL-2.1] [AFL-2.1 or GPL-2+] [GPL-2] [GPL-2+] [LGPL-2+ public-domain]

-----

Licenses of module/program 'libattr1:amd64':

-----

Version  
1:2.4.47-2build1  
Description  
Extended attribute shared library  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libaudit-common':

-----

Version  
1:2.8.2-1ubuntu1  
Description  
Dynamic library for security auditing - common files  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libaudit1:amd64':

-----

Version  
1:2.8.2-1ubuntu1  
Description  
Dynamic library for security auditing  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libauthen-pam-perl':

-----

Version  
0.16-3build5  
Description  
Perl interface to PAM library  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libauthen-sasl-perl':

-----

Version  
2.1600-1  
Description  
Authen::SASL - SASL Authentication framework  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libavahi-client3:amd64':

-----

Version  
0.7-3.1ubuntu1.2  
Description  
Avahi client library  
Licenses  
[GPL] [GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libavahi-common-data:amd64':

-----

Version  
0.7-3.1ubuntu1.2  
Description  
Avahi common data files  
Licenses  
[GPL] [GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libavahi-common3:amd64':

-----

Version  
0.7-3.1ubuntu1.2  
Description  
Avahi common library  
Licenses  
[GPL] [GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libavahi-core7:amd64':

-----

Version  
0.7-3.1ubuntu1.2  
Description  
Avahi's embeddable mDNS/DNS-SD library  
Licenses  
[GPL] [GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libb-hooks-endofscope-perl':

-----

Version  
0.21-1  
Description  
module for executing code after a scope finished compilation  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libb-hooks-op-check-perl':

-----

Version  
0.22-1  
Description  
Perl wrapper for OP check callbacks  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libberkeleydb-perl':

-----

Version  
0.55-1build4  
Description  
use Berkeley DB databases from Perl  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'libbind9-160:amd64':

-----

Version  
1:9.11.3+dfsg-1ubuntu1.11  
Description  
BIND9 Shared Library used by BIND  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----  
Licenses of module/program 'libbinutils:amd64':

-----  
Version  
2.30-21ubuntu1~18.04.3  
Description  
GNU binary utilities (private shared library)  
Licenses  
[GFDL] [GPL] [LGPL]

-----  
Licenses of module/program 'libblas3:amd64':

-----  
Version  
3.7.1-4ubuntu1  
Description  
Basic Linear Algebra Reference implementations, shared libra  
Licenses  
[BSD-3-clause BSD-3-clause-intel]

-----  
Licenses of module/program 'libblkid1:amd64':

-----  
Version  
2.31.1-0.4ubuntu3.6  
Description  
block device ID library  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----  
Licenses of module/program 'libbsd-resource-perl':

-----  
Version  
1.2911-1build2  
Description  
BSD process resource limit and priority functions  
Licenses  
[Artistic] [Artistic-2.0] [Artistic-2.0 or LGPL-2] [Artistic or GPL-1+] [GPL-1+] [LGPL-2]

-----  
Licenses of module/program 'libbsd0:amd64':

-----  
Version  
0.8.7-1ubuntu0.1  
Description  
utility functions from BSD systems - shared library  
Licenses  
[Beerware] [BSD-2-clause BSD-2-clause-author BSD-2-clause-NetBSD BSD-2-clause-verbatim] [BSD-3-clause BSD-3-clause-John-Birrell BSD-3-clause-Peter-Wemm BSD-3-clause-Regents] [BSD-4-clause-Christopher-G-Demetriou BSD-4-clause-Niels-Provos BSD-5-clause-Peter-Wemm] [Expat] [ISC ISC-Original public-domain public-domain-Colin-Plumb]

-----  
Licenses of module/program 'libbytes-random-secure-perl':

-----

Version  
0.28-1  
Description  
Perl extension to generate cryptographically-secure random b  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libbz2-1.0:amd64':

-----

Version  
1.0.6-8.1ubuntu0.2  
Description  
high-quality block-sorting file compressor library - runtime  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libc-bin':

-----

Version  
2.27-3ubuntu1  
Description  
GNU C Library: Binaries  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libc-dev-bin':

-----

Version  
2.27-3ubuntu1  
Description  
GNU C Library: Development binaries  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libc6:amd64':

-----

Version  
2.27-3ubuntu1  
Description  
GNU C Library: Shared libraries  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libc6-dev:amd64':

-----

Version  
2.27-3ubuntu1  
Description  
GNU C Library: Development Libraries and Header Files  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libcairo2:amd64':

-----

Version  
1.15.10-2ubuntu0.1  
Description  
Cairo 2D vector graphics library  
Licenses  
[LGPL-2.1]

-----

Licenses of module/program 'libcappng0:amd64':

-----

Version  
0.7.7-3.1  
Description  
An alternate POSIX capabilities library  
Licenses  
[GPL-2] [GPL-3] [LGPL-2.1]

-----

Licenses of module/program 'libcapp2:amd64':

-----

Version  
1:2.25-1.2  
Description  
POSIX 1003.1e capabilities (library)  
Licenses  
[BSD-3-clause] [BSD-3-clause or GPL-2] [BSD-3-clause or GPL-2+] [GPL-2] [GPL-2+]

-----

Licenses of module/program 'libcapp2-bin':

-----

Version  
1:2.25-1.2  
Description  
POSIX 1003.1e capabilities (utilities)  
Licenses  
[BSD-3-clause] [BSD-3-clause or GPL-2] [BSD-3-clause or GPL-2+] [GPL-2] [GPL-2+]

-----

Licenses of module/program 'libcc1-0:amd64':

-----

Version  
8.4.0-1ubuntu1~18.04  
Description  
GCC cc1 plugin for GDB  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libcdt5':

-----

Version  
2.40.1-2  
Description  
rich set of graph drawing tools - cdt library  
Licenses  
[EPL-1.0] [MIT X/MIT zlib-style]

-----

Licenses of module/program 'libcgifastperl':

-----

Version  
1:2.13-1  
Description  
CGI subclass for work with FCGI  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libcgi-pm-perl':

-----

Version  
4.38-1  
Description  
module for Common Gateway Interface applications  
Licenses  
[Artistic] [Artistic-2.0] [Artistic-2.0 or Artistic or GPL-1+] [Artistic-2.0 or GPL-1+] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libcgraph6':

-----

Version  
2.40.1-2  
Description  
rich set of graph drawing tools - cgraph library  
Licenses  
[EPL-1.0] [MIT X/MIT zlib-style]

-----

Licenses of module/program 'libcilkrts5:amd64':

-----

Version  
7.5.0-3ubuntu1~18.04  
Description  
Intel Cilk Plus language extensions (runtime)  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libclamav9:amd64':

-----

Version  
0.102.2+dfsg-0ubuntu0.18.04.1  
Description  
anti-virus utility for Unix - library  
Licenses  
[Apache-2.0 with GPL exception] [BSD-2-clause] [BSD-3-clause] [Expat] [GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [GPL-2+ with Libtool exception] [GPL-2 with OpenSSL exception] [GPL-3+ with Autoconf exception] [GPL-3+ with Bison exception] [ISC] [LGPL-2.1] [LGPL-2+ with Libtool exception] [LZW nsis-bzip2 permissive] [permissive~1] [permissive~2] [permissive~3] [permissive~4] [public-domain] [public-domain~1] [public-domain~2] [public-domain~3] [Zlib]

-----

Licenses of module/program 'libclass-c3-perl':

-----

Version  
0.33-1  
Description  
pragma for using the C3 method resolution order  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]



-----

Licenses of module/program 'libclass-c3-xs-perl':

-----

Version  
0.14-1build3  
Description  
Perl module to accelerate Class::C3  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libclass-data-inheritable-perl':

-----

Version  
0.08-2  
Description  
Perl module to create accessors to class data  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libclass-method-modifiers-perl':

-----

Version  
2.12-1  
Description  
Perl module providing method modifiers  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libcom-err2:amd64':

-----

Version  
1.44.1-1ubuntu1.3  
Description  
common error description library  
Licenses  
[unknown]

-----

Licenses of module/program 'libcomerr2:amd64':

-----

Version  
1.44.1-1ubuntu1.3  
Description  
transitional package  
Licenses  
[GPL-2] [LGPL-2]

-----

Licenses of module/program 'libconfig-inifiles-perl':

-----

Version  
2.94-1  
Description  
Read .ini-style configuration files  
Licenses  
[Artistic] [Artistic or GPL-1+] [Expat] [GPL-1+] [GPL-3+]

-----

Licenses of module/program 'libcrypt-openssl-bignum-perl':

-----

Version  
0.09-1build1  
Description  
Perl module to access OpenSSL multiprecision integer arithmetic  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libcrypt-openssl-rsa-perl':

-----

Version  
0.28-5build2  
Description  
module for RSA encryption using OpenSSL  
Licenses  
[Artistic] [GPL-1+] [GPL-1+ or Artistic]

-----

Licenses of module/program 'libcrypt-random-seed-perl':

-----

Version  
0.03-1  
Description  
Perl module providing strong randomness for seeding  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libcrypt-ssleay-perl':

-----

Version  
0.73.04-2build2  
Description  
OpenSSL support for LWP  
Licenses  
[Artistic] [Artistic-2.0] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libcryptsetup12:amd64':

-----

Version  
2:2.0.2-1ubuntu1.1  
Description  
disk encryption support - shared library  
Licenses  
[Apache-2.0] [CC0] [CC0 or Apache-2.0] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'libcups2:amd64':

-----

Version  
2.2.7-1ubuntu2.7  
Description  
Common UNIX Printing System(tm) - Core library  
Licenses  
[BSD-2-clause] [GPL-2.0 with AOSDL exception] [LGPL-2.0 with AOSDL exception Zlib]

-----

Licenses of module/program 'libcupsfilters1:amd64':

-----

Version  
1.20.2-0ubuntu3.1  
Description  
OpenPrinting CUPS Filters - Shared library  
Licenses  
[BSD-4-clause] [Expat] [GPL-2] [GPL-2+] [GPL-3] [GPL-3+] [LGPL-2] [LGPL-2.1+]

-----

Licenses of module/program 'libcupsimage2:amd64':

-----

Version  
2.2.7-1ubuntu2.7  
Description  
Common UNIX Printing System(tm) - Raster image library  
Licenses  
[BSD-2-clause] [GPL-2.0 with AOSDL exception] [LGPL-2.0 with AOSDL exception Zlib]

-----

Licenses of module/program 'libcurl3-gnutls:amd64':

-----

Version  
7.58.0-2ubuntu3.8  
Description  
easy-to-use client-side URL transfer library (GnuTLS flavour)  
Licenses  
[BSD-3-Clause] [BSD-4-Clause] [curl] [ISC other public-domain]

-----

Licenses of module/program 'libcurl4:amd64':

-----

Version  
7.58.0-2ubuntu3.8  
Description  
easy-to-use client-side URL transfer library (OpenSSL flavou  
Licenses  
[BSD-3-Clause] [BSD-4-Clause] [curl] [ISC other public-domain]

-----

Licenses of module/program 'libdaemon0:amd64':

-----

Version  
0.14-6  
Description  
lightweight C library for daemons - runtime library  
Licenses  
[GPL-2] [LGPL]

-----

Licenses of module/program 'libdata-dump-perl':

-----

Version  
1.23-1  
Description  
Perl module to help dump data structures  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libdata-optlist-perl':

-----

Version  
0.110-1  
Description  
module to parse and validate simple name/value option pairs  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libdatrie1:amd64':

-----

Version  
0.2.10-7  
Description  
Double-array trie library  
Licenses  
[GPL-2+] [LGPL-2.1+]

-----

Licenses of module/program 'libdb5.3:amd64':

-----

Version  
5.3.28-13.1ubuntu1.1  
Description  
Berkeley v5.3 Database Libraries [runtime]  
Licenses  
[unknown]

-----

Licenses of module/program 'libdbd-mysql-perl':

-----

Version  
4.046-1  
Description  
Perl5 database interface to the MariaDB/MySQL database  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libdbi-perl':

-----

Version  
1.640-1  
Description  
Perl Database Interface (DBI)  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libdbi1:amd64':

-----

Version  
0.9.0-5  
Description  
DB Independent Abstraction Layer for C -- shared library  
Licenses  
[GFDL-1.1+] [GPL-2+] [LGPL-2.1+]

-----  
Licenses of module/program 'libdbus-1-3:amd64':  
-----  
Version  
1.12.2-1ubuntu1.1  
Description  
simple interprocess messaging system (library)  
Licenses  
[AFL-2.1] [BSD-3-clause BSD-3-clause-generic] [Expat g10-permissive] [GPL-2+] [GPL-2+ or AFL-2.1] [GPL-2+ or AFL-2.1, Tcl-BSDish]  
-----  
Licenses of module/program 'libdebconfclient0:amd64':  
-----  
Version  
0.213ubuntu1  
Description  
Debian Configuration Management System (C-implementation lib  
Licenses  
[public domain]  
-----  
Licenses of module/program 'libdevel-callchecker-perl':  
-----  
Version  
0.007-2build1  
Description  
custom op checking attached to subroutines  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+] [GPL-3+]  
-----  
Licenses of module/program 'libdevel-caller-perl':  
-----  
Version  
2.06-1build5  
Description  
module providing enhanced caller() support  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]  
-----  
Licenses of module/program 'libdevel-globaldestruction-perl':  
-----  
Version  
0.14-1  
Description  
module to expose the flag that marks global destruction  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]  
-----  
Licenses of module/program 'libdevel-lexalias-perl':  
-----  
Version  
0.05-1build5  
Description  
Perl module that provides alias lexical variables  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libdevel-stacktrace-perl':

-----

Version  
2.0300-1  
Description  
Perl module containing stack trace and related objects  
Licenses  
[Artistic] [Artistic-2.0] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libdevel-symdump-perl':

-----

Version  
2.18-1  
Description  
Perl module for inspecting perl's symbol table  
Licenses  
[GPL-1+ or Artistic-1]

-----

Licenses of module/program 'libdevmapper-event1.02.1:amd64':

-----

Version  
2:1.02.145-4.1ubuntu3.18.04.2  
Description  
Linux Kernel Device Mapper event support library  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libdevmapper1.02.1:amd64':

-----

Version  
2:1.02.145-4.1ubuntu3.18.04.2  
Description  
Linux Kernel Device Mapper userspace library  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libdigest-hmac-perl':

-----

Version  
1.03+dfsg-1  
Description  
module for creating standard message integrity checks  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'libdist-checkconflicts-perl':

-----

Version  
0.11-1  
Description  
module for declaring version conflicts for a distribution  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libdjvulibre-text':

-----

Version  
3.5.27.1-8ubuntu0.1  
Description  
Linguistic support files for libdjvulibre  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libdjvulibre21:amd64':

-----

Version  
3.5.27.1-8ubuntu0.1  
Description  
Runtime support for the DjVu image format  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libdns-export1100':

-----

Version  
1:9.11.3+dfsg-1ubuntu1.11  
Description  
Exported DNS Shared Library  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'libdns1100:amd64':

-----

Version  
1:9.11.3+dfsg-1ubuntu1.11  
Description  
DNS Shared Library used by BIND  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'libdrm-amdgpu1:amd64':

-----

Version  
2.4.99-1ubuntu1~18.04.2  
Description  
Userspace interface to amdgpu-specific kernel DRM services -  
Licenses  
[unknown]

-----

Licenses of module/program 'libdrm-common':

-----

Version  
2.4.99-1ubuntu1~18.04.2  
Description  
Userspace interface to kernel DRM services -- common files  
Licenses  
[unknown]

-----

Licenses of module/program 'libdrm-intel1:amd64':

-----

Version  
2.4.99-1ubuntu1~18.04.2  
Description  
Userspace interface to intel-specific kernel DRM services --  
Licenses  
[unknown]

-----

Licenses of module/program 'libdrm-nouveau2:amd64':

-----

Version  
2.4.99-1ubuntu1~18.04.2  
Description  
Userspace interface to nouveau-specific kernel DRM services  
Licenses  
[unknown]

-----

Licenses of module/program 'libdrm-radeon1:amd64':

-----

Version  
2.4.99-1ubuntu1~18.04.2  
Description  
Userspace interface to radeon-specific kernel DRM services -  
Licenses  
[unknown]

-----

Licenses of module/program 'libdrm2:amd64':

-----

Version  
2.4.99-1ubuntu1~18.04.2  
Description  
Userspace interface to kernel DRM services -- runtime  
Licenses  
[unknown]

-----

Licenses of module/program 'libdumbnet1:amd64':

-----

Version  
1.12-7build1  
Description  
dumb, portable networking library -- shared library  
Licenses  
[4-clause BSD license BSD license]

-----

Licenses of module/program 'libdynaloader-functions-perl':

-----

Version  
0.003-1  
Description  
deconstructed dynamic C library loading  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+] [GPL-3+]



-----

Licenses of module/program 'libedit2:amd64':

-----

Version  
3.1-20170329-1  
Description  
BSD editline and history libraries  
Licenses  
[unknown]

-----

Licenses of module/program 'libelf1:amd64':

-----

Version  
0.170-0.4ubuntu0.1  
Description  
library to read and write ELF files  
Licenses  
[GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libemail-date-format-perl':

-----

Version  
1.005-1  
Description  
Module to generate RFC-2822-valid date strings  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libencode-locale-perl':

-----

Version  
1.05-1  
Description  
utility to determine the locale encoding  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'liberror-perl':

-----

Version  
0.17025-1  
Description  
Perl module for error/exception handling in an OO-ish way  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+] [MIT/X11]

-----

Licenses of module/program 'libestr0:amd64':

-----

Version  
0.1.10-2.1  
Description  
Helper functions for handling strings (lib)  
Licenses  
[LGPL-2.1]

-----

Licenses of module/program 'libeval-closure-perl':

-----

Version  
0.14-1  
Description  
Perl module to safely and cleanly create closures via string  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libevent-2.1-6:amd64':

-----

Version  
2.1.8-stable-4build1  
Description  
Asynchronous event notification library  
Licenses  
[BSD license]

-----

Licenses of module/program 'libexception-class-perl':

-----

Version  
1.44-1  
Description  
module that allows you to declare real exception classes in  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libexpat1:amd64':

-----

Version  
2.2.5-3ubuntu0.2  
Description  
XML parsing C library - runtime library  
Licenses  
[MIT]

-----

Licenses of module/program 'libext2fs2:amd64':

-----

Version  
1.44.1-1ubuntu1.3  
Description  
ext2/ext3/ext4 file system libraries  
Licenses  
[GPL-2] [LGPL-2]

-----

Licenses of module/program 'libexttextcat-2.0-0:amd64':

-----

Version  
3.4.5-1  
Description  
Language detection library  
Licenses  
[unknown]

-----

Licenses of module/program 'libexttextcat-data':

-----

Version  
3.4.5-1  
Description  
Language detection library - data files  
Licenses  
[unknown]

-----

Licenses of module/program 'libfastjson4:amd64':

-----

Version  
0.99.8-2  
Description  
fast json library for C  
Licenses  
[Apache-2.0] [Expat]

-----

Licenses of module/program 'libfcgi-bin':

-----

Version  
2.4.0-10  
Description  
FastCGI bridge from CGI  
Licenses  
[FASTCGI]

-----

Licenses of module/program 'libfcgi-dev:amd64':

-----

Version  
2.4.0-10  
Description  
header files of FastCGI  
Licenses  
[FASTCGI]

-----

Licenses of module/program 'libfcgi-perl':

-----

Version  
0.78-2build1  
Description  
helper module for FastCGI  
Licenses  
[other PD]

-----

Licenses of module/program 'libfcgi0ldbl:amd64':

-----

Version  
2.4.0-10  
Description  
shared library of FastCGI  
Licenses  
[FASTCGI]

-----

Licenses of module/program 'libfdisk1:amd64':

-----

Version  
2.31.1-0.4ubuntu3.6  
Description  
fdisk partitioning library  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----

Licenses of module/program 'libffi6:amd64':

-----

Version  
3.2.1-8  
Description  
Foreign Function Interface library runtime  
Licenses  
[GPL]

-----

Licenses of module/program 'libfftw3-double3:amd64':

-----

Version  
3.3.7-1  
Description  
Library for computing Fast Fourier Transforms - Double preci  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libfile-listing-perl':

-----

Version  
6.04-1  
Description  
module to parse directory listings  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'libflac8:amd64':

-----

Version  
1.3.2-1  
Description  
Free Lossless Audio Codec - runtime C library  
Licenses  
[BSD-3-clause] [GFDL-1.1+] [GPL-2+] [GPL-2+ or LGPL-2.1+] [ISC] [LGPL-2+] [LGPL-2.1+ Public-domain]

-----

Licenses of module/program 'libfont-afm-perl':

-----

Version  
1.20-2  
Description  
Font::AFM - Interface to Adobe Font Metrics files  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libfontconfig1:amd64':

-----

Version  
2.12.6-0ubuntu2  
Description  
generic font configuration library - runtime  
Licenses  
[unknown]

-----

Licenses of module/program 'libfontenc1:amd64':

-----

Version  
1:1.1.3-1  
Description  
X11 font encoding library  
Licenses  
[unknown]

-----

Licenses of module/program 'libfreerdp-common1.1.0:amd64':

-----

Version  
1.1.0~git20140921.1.440916e+df  
Description  
Free Remote Desktop Protocol library (common library)  
Licenses  
[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libfreerdp-plugins-standard:am':

-----

Version  
1.1.0~git20140921.1.440916e+df  
Description  
RDP client for Windows Terminal Services (plugins)  
Licenses  
[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libfreerdp-utils1.1:amd64':

-----

Version  
1.1.0~git20140921.1.440916e+df  
Description  
Free Remote Desktop Protocol library (freerdp-utils library)  
Licenses  
[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libfreetype6:amd64':

-----

Version  
2.8.1-2ubuntu2  
Description  
FreeType 2 font engine, shared library files  
Licenses  
[BSD-2-Clause] [BSD-3-Clause] [Catharon-OSL] [FTL] [GPL-2+] [GPL-2+ or FTL] [GZip] [OpenGroup-BSD-like]

-----

Licenses of module/program 'libfribidi0:amd64':

-----

Version  
0.19.7-2  
Description  
Free Implementation of the Unicode BiDi algorithm  
Licenses  
[LGPL-2.1+]

-----

Licenses of module/program 'libfuse2:amd64':

-----

Version  
2.9.7-1ubuntu1  
Description  
Filesystem in Userspace (library)  
Licenses  
[GPL-2] [GPL-2+] [LGPL-2]

-----

Licenses of module/program 'libgc1c2:amd64':

-----

Version  
1:7.4.2-8ubuntu1  
Description  
conservative garbage collector for C and C++  
Licenses  
[unknown]

-----

Licenses of module/program 'libgcc-7-dev:amd64':

-----

Version  
7.5.0-3ubuntu1~18.04  
Description  
GCC support library (development files)  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libgcc1:amd64':

-----

Version  
1:8.4.0-1ubuntu1~18.04  
Description  
GCC support library  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libgcrypt20:amd64':

-----

Version  
1.8.1-4ubuntu1.2  
Description  
LGPL Crypto library - runtime library  
Licenses  
[GPL-2] [LGPL]

-----

Licenses of module/program 'libgd3:amd64':

-----

Version  
2.2.5-4ubuntu0.4  
Description  
GD Graphics Library  
Licenses  
[BSD-3-clause] [GAP~configure GAP~Makefile.in GD] [GPL-2+] [GPL-2+ with Autoconf exception] [HPND] [MIT WEBP XFIG]

-----

Licenses of module/program 'libgdbm-compat4:amd64':

-----

Version  
1.14.1-6  
Description  
GNU dbm database routines (legacy support runtime version)  
Licenses  
[GFDL-1.3+] [GPL-3+]

-----

Licenses of module/program 'libgdbm5:amd64':

-----

Version  
1.14.1-6  
Description  
GNU dbm database routines (runtime version)  
Licenses  
[GFDL-1.3+] [GPL-3+]

-----

Licenses of module/program 'libgeoip1:amd64':

-----

Version  
1.6.12-1  
Description  
non-DNS IP-to-country resolver library  
Licenses  
[ISC] [LGPL-2.1+]

-----

Licenses of module/program 'libgif7:amd64':

-----

Version  
5.1.4-2ubuntu0.1  
Description  
library for GIF images (library)  
Licenses  
[MIT]

-----

Licenses of module/program 'libgirepository-1.0-1:amd64':

-----

Version  
1.56.1-1  
Description  
Library for handling GObject introspection data (runtime lib)  
Licenses  
[BSD-2-clause] [GPL-2+] [LGPL-2+] [MIT]

-----

Licenses of module/program 'libgl1:amd64':

-----

Version  
1.0.0-2ubuntu2.3  
Description  
Vendor neutral GL dispatch library -- legacy GL support  
Licenses  
[BSD-1-clause] [GPL-3+] [MIT public-domain]

-----

Licenses of module/program 'libgl1-mesa-dri:amd64':

-----

Version  
19.2.8-0ubuntu0~18.04.3  
Description  
free implementation of the OpenGL API -- DRI modules  
Licenses  
[Apache-2.0] [BSD-2-clause] [BSD-3-google] [BSL] [GPL] [Khronos] [MIT MLAA SGI]

-----

Licenses of module/program 'libglapi-mesa:amd64':

-----

Version  
19.2.8-0ubuntu0~18.04.3  
Description  
free implementation of the GL API -- shared library  
Licenses  
[Apache-2.0] [BSD-2-clause] [BSD-3-google] [BSL] [GPL] [Khronos] [MIT MLAA SGI]

-----

Licenses of module/program 'libglib2.0-0:amd64':

-----

Version  
2.56.4-0ubuntu0.18.04.6  
Description  
GLib library of C routines  
Licenses  
[LGPL]

-----

Licenses of module/program 'libglib2.0-data':

-----

Version  
2.56.4-0ubuntu0.18.04.6  
Description  
Common files for GLib library  
Licenses  
[LGPL]

-----

Licenses of module/program 'libglvnd0:amd64':

-----

Version  
1.0.0-2ubuntu2.3  
Description  
Vendor neutral GL dispatch library  
Licenses  
[BSD-1-clause] [GPL-3+] [MIT public-domain]



-----

Licenses of module/program 'libglx-mesa0:amd64':

-----

Version  
19.2.8-0ubuntu0~18.04.3  
Description  
free implementation of the OpenGL API -- GLX vendor library  
Licenses  
[Apache-2.0] [BSD-2-clause] [BSD-3-google BSL] [GPL] [Khronos] [MIT MLAA SGI]

-----

Licenses of module/program 'libglx0:amd64':

-----

Version  
1.0.0-2ubuntu2.3  
Description  
Vendor neutral GL dispatch library -- GLX support  
Licenses  
[BSD-1-clause] [GPL-3+] [MIT public-domain]

-----

Licenses of module/program 'libgmp10:amd64':

-----

Version  
2:6.1.2+dfsg-2  
Description  
Multiprecision arithmetic library  
Licenses  
[GPL] [GPL-2] [GPL-3] [LGPL-3]

-----

Licenses of module/program 'libgnutls-openssl27:amd64':

-----

Version  
3.5.18-1ubuntu1.3  
Description  
GNU TLS library - OpenSSL wrapper  
Licenses  
[GFDL-1.3] [GPL] [GPL-3] [LGPL] [LGPL-3]

-----

Licenses of module/program 'libgnutls30:amd64':

-----

Version  
3.5.18-1ubuntu1.3  
Description  
GNU TLS library - main runtime library  
Licenses  
[GFDL-1.3] [GPL] [GPL-3] [LGPL] [LGPL-3]

-----

Licenses of module/program 'libgomp1:amd64':

-----

Version  
8.4.0-1ubuntu1~18.04  
Description  
GCC OpenMP (GOMP) support library  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libpgg-error0:amd64':

-----

Version  
1.27-6  
Description  
library for common error values and messages in GnuPG compon  
Licenses  
[BSD-3-clause g10-permissive] [GPL-3+] [LGPL-2.1+] [LGPL-2.1+ or BSD-3-clause]

-----

Licenses of module/program 'libgpm2:amd64':

-----

Version  
1.20.7-5  
Description  
General Purpose Mouse - shared library  
Licenses  
[GPL-2.0+] [GPL-3.0+]

-----

Licenses of module/program 'libgraphite2-3:amd64':

-----

Version  
1.3.11-2  
Description  
Font rendering engine for Complex Scripts -- library  
Licenses  
[Artistic] [Artistic or GPL-1+ custom-sil-open-font-license] [GPL-1+] [GPL-2+] [LGPL-2.1+] [LGPL-2.1+ or GPL-2+ or MPL-1.1] [LGPL-2.1+ or MPL-1.1 or GPL-2+] [MPL-1.1 public-domain]

-----

Licenses of module/program 'libgs9:amd64':

-----

Version  
9.26~dfsg+0-0ubuntu0.18.04.12  
Description  
interpreter for the PostScript language and for PDF - Librar  
Licenses  
[AGPL-3 AGPL-3+ AGPL-3+ with font exception] [Apache-2.0] [BSD-2-Clause] [BSD-3-Clause BSD-3-Clause~Adobe] [Expat Expat~Ghostgum Expat~SunSoft Expat~SunSoft with SunSoft exception] [FTL] [GAP~configure] [GPL] [GPL-2] [GPL-2+] [GPL-3+] [ISC] [LGPL-2.1] [NTP~Lucent NTP~Open NTP~WSU other public-domain ZLIB]

-----

Licenses of module/program 'libgs9-common':

-----

Version  
9.26~dfsg+0-0ubuntu0.18.04.12  
Description  
interpreter for the PostScript language and for PDF - common  
Licenses  
[AGPL-3 AGPL-3+ AGPL-3+ with font exception] [Apache-2.0] [BSD-2-Clause] [BSD-3-Clause BSD-3-Clause~Adobe] [Expat Expat~Ghostgum Expat~SunSoft Expat~SunSoft with SunSoft exception] [FTL] [GAP~configure] [GPL] [GPL-2] [GPL-2+] [GPL-3+] [ISC] [LGPL-2.1] [NTP~Lucent NTP~Open NTP~WSU other public-domain ZLIB]

-----

Licenses of module/program 'libgsasl7:amd64':

-----

Version  
1.8.0-8ubuntu3

Description  
GNU SASL library  
Licenses  
[GFDL-1.3+] [GPL-3+] [LGPL-2+ other]

-----

Licenses of module/program 'libgssapi-krb5-2:amd64':

-----

Version  
1.16-2ubuntu0.1  
Description  
MIT Kerberos runtime libraries - krb5 GSS-API Mechanism  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libgssapi3-heimdal:amd64':

-----

Version  
7.5.0+dfsg-1  
Description  
Heimdal Kerberos - GSSAPI support library  
Licenses  
[BSD-3-clause custom] [GPL-2+ none]

-----

Licenses of module/program 'libgts-0.7-5:amd64':

-----

Version  
0.7.6+darcs121130-4  
Description  
library to deal with 3D computational surface meshes  
Licenses  
[LGPL-2+]

-----

Licenses of module/program 'libgts-bin':

-----

Version  
0.7.6+darcs121130-4  
Description  
utility binaries for libgts  
Licenses  
[LGPL-2+]

-----

Licenses of module/program 'libgvc6':

-----

Version  
2.40.1-2  
Description  
rich set of graph drawing tools - gvc library  
Licenses  
[EPL-1.0] [MIT X/MIT zlib-style]

-----

Licenses of module/program 'libgvpr2':

-----

Version  
2.40.1-2

## Description

rich set of graph drawing tools - gvpr library

## Licenses

[EPL-1.0] [MIT X/MIT zlib-style]

-----

Licenses of module/program 'libharfbuzz0b:amd64':

-----

## Version

1.7.2-1ubuntu1

## Description

OpenType text shaping engine (shared library)

## Licenses

[MIT]

-----

Licenses of module/program 'libcrypto4-heimdal:amd64':

-----

## Version

7.5.0+dfsg-1

## Description

Heimdal Kerberos - crypto library

## Licenses

[BSD-3-clause custom] [GPL-2+ none]

-----

Licenses of module/program 'libhd21:amd64':

-----

## Version

21.52-1

## Description

Hardware identification system library

## Licenses

[GPL-2]

-----

Licenses of module/program 'libheimbase1-heimdal:amd64':

-----

## Version

7.5.0+dfsg-1

## Description

Heimdal Kerberos - Base library

## Licenses

[BSD-3-clause custom] [GPL-2+ none]

-----

Licenses of module/program 'libheimntlm0-heimdal:amd64':

-----

## Version

7.5.0+dfsg-1

## Description

Heimdal Kerberos - NTLM support library

## Licenses

[BSD-3-clause custom] [GPL-2+ none]

-----

Licenses of module/program 'libhogweed4:amd64':

-----

## Version

3.4-1

## Description

low level cryptographic library (public-key cryptos)

## Licenses

[GAP] [GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [LGPL-2+] [LGPL-2.1+ other public-domain]

-----

Licenses of module/program 'libhtml-form-perl':

-----

## Version

6.03-1

## Description

module that represents an HTML form element

## Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libhtml-format-perl':

-----

## Version

2.12-1

## Description

module for transforming HTML into various formats

## Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libhtml-parser-perl':

-----

## Version

3.72-3build1

## Description

collection of modules that parse HTML text documents

## Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libhtml-tagset-perl':

-----

## Version

3.20-3

## Description

Data tables pertaining to HTML

## Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libhtml-template-perl':

-----

## Version

2.97-1

## Description

module for using HTML templates with Perl

## Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libhtml-tree-perl':

-----

## Version

5.07-1

Description  
Perl module to represent and create HTML syntax trees  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libhttp-cookies-perl':

-----

Version  
6.04-1  
Description  
HTTP cookie jars  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libhttp-daemon-perl':

-----

Version  
6.01-1  
Description  
simple http server class  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'libhttp-date-perl':

-----

Version  
6.02-1  
Description  
module of date conversion routines  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libhttp-message-perl':

-----

Version  
6.14-1  
Description  
perl interface to HTTP style messages  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libhttp-negotiate-perl':

-----

Version  
6.00-2  
Description  
implementation of content negotiation  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'libhx509-5-heimdal:amd64':

-----

Version  
7.5.0+dfsg-1

Description  
Heimdal Kerberos - X509 support library  
Licenses  
[BSD-3-clause custom] [GPL-2+ none]

-----

Licenses of module/program 'libice-dev:amd64':

-----

Version  
2:1.0.9-2  
Description  
X11 Inter-Client Exchange library (development headers)  
Licenses  
[unknown]

-----

Licenses of module/program 'libice6:amd64':

-----

Version  
2:1.0.9-2  
Description  
X11 Inter-Client Exchange library  
Licenses  
[unknown]

-----

Licenses of module/program 'libicu60:amd64':

-----

Version  
60.2-3ubuntu3.1  
Description  
International Components for Unicode  
Licenses  
[unknown]

-----

Licenses of module/program 'libidn11:amd64':

-----

Version  
1.33-2.1ubuntu1.2  
Description  
GNU Libidn library, implementation of IETF IDN specification  
Licenses  
[GAP] [GFDL-1.3+] [GPL-3+] [LGPL-2.1+] [LGPL-3+ or GPL-2+]

-----

Licenses of module/program 'libidn2-0:amd64':

-----

Version  
2.0.4-1.1ubuntu0.2  
Description  
Internationalized domain names (IDNA2008/TR46) library  
Licenses  
[GPL-2+] [GPL-3+] [LGPL-3+] [LGPL-3+ or GPL-2+ Unicode]

-----

Licenses of module/program 'libijs-0.35:amd64':

-----

Version  
0.35-13

## Description

IJS raster image transport protocol: shared library

## Licenses

[Expat Expat~X Expat~X with X exception] [GAP GAP~configure GAP~Makefile.in] [GPL-2+] [GPL-2+ with Autoconf exception]

-----

Licenses of module/program 'libilmbase12:amd64':

-----

## Version

2.2.0-11ubuntu2

## Description

several utility libraries from ILM used by OpenEXR

## Licenses

[boost ilmbase]

-----

Licenses of module/program 'libio-html-perl':

-----

## Version

1.001-1

## Description

open an HTML file with automatic charset detection

## Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+] [GPL-3+]

-----

Licenses of module/program 'libio-multiplex-perl':

-----

## Version

1.16-1

## Description

object-oriented interface to select() for Perl

## Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libio-pty-perl':

-----

## Version

1:1.08-1.1build4

## Description

Perl module for pseudo tty IO

## Licenses

[Artistic] [GPL]

-----

Licenses of module/program 'libio-socket-inet6-perl':

-----

## Version

2.72-2

## Description

object interface for AF\_INET6 domain sockets

## Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libio-socket-ssl-perl':

-----

## Version

2.060-3~ubuntu18.04.1



Description  
Perl module implementing object oriented interface to SSL so  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libip4tc0:amd64':

-----

Version  
1.6.1-2ubuntu2  
Description  
netfilter libip4tc library  
Licenses  
[Artistic-2 custom] [GPL-2] [GPL-2+]

-----

Licenses of module/program 'libip6tc0:amd64':

-----

Version  
1.6.1-2ubuntu2  
Description  
netfilter libip6tc library  
Licenses  
[Artistic-2 custom] [GPL-2] [GPL-2+]

-----

Licenses of module/program 'libipc-shareable-perl':

-----

Version  
0.61-2  
Description  
module to access IPC shared memory segments through perl  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+] [GPL-2+]

-----

Licenses of module/program 'libipset3:amd64':

-----

Version  
6.34-1  
Description  
library for IP sets  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'libiptc0:amd64':

-----

Version  
1.6.1-2ubuntu2  
Description  
netfilter libiptc library  
Licenses  
[Artistic-2 custom] [GPL-2] [GPL-2+]

-----

Licenses of module/program 'libirs160:amd64':

-----

Version  
1:9.11.3+dfsg-1ubuntu1.11

## Description

DNS Shared Library used by BIND

## Licenses

[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'libisc-export169:amd64':

-----

## Version

1:9.11.3+dfsg-1ubuntu1.11

## Description

Exported ISC Shared Library

## Licenses

[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'libisc169:amd64':

-----

## Version

1:9.11.3+dfsg-1ubuntu1.11

## Description

ISC Shared Library used by BIND

## Licenses

[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'libisccc160:amd64':

-----

## Version

1:9.11.3+dfsg-1ubuntu1.11

## Description

Command Channel Library used by BIND

## Licenses

[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'libiscfg160:amd64':

-----

## Version

1:9.11.3+dfsg-1ubuntu1.11

## Description

Config File Handling Library used by BIND

## Licenses

[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'libisl19:amd64':

-----

## Version

0.19-1

## Description

manipulating sets and relations of integer points bounded by

## Licenses

[BSD-2-clause] [LGPL-2.1+] [MIT]

-----

Licenses of module/program 'libisns0:amd64':

-----

## Version

0.97-2build1

## Description

Internet Storage Name Service - shared libraries

## Licenses

[Expat] [LGPL-2.1+]

-----

Licenses of module/program 'libitm1:amd64':

-----

## Version

8.4.0-1ubuntu1~18.04

## Description

GNU Transactional Memory Library

## Licenses

[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libjansson4:amd64':

-----

## Version

2.11-1

## Description

C library for encoding, decoding and manipulating JSON data

## Licenses

[Expat]

-----

Licenses of module/program 'libjbig0:amd64':

-----

## Version

2.1-3.1build1

## Description

JBIGkit libraries

## Licenses

[GPL-2+]

-----

Licenses of module/program 'libjbig2dec0:amd64':

-----

## Version

0.13-6

## Description

JBIG2 decoder library - shared libraries

## Licenses

[AGPL-3+] [BSD-2-clause] [GPL-3+] [LGPL-2.1+ public-domain public-domain]

-----

Licenses of module/program 'libjemalloc1':

-----

## Version

3.6.0-11

## Description

general-purpose scalable concurrent malloc(3) implementation

## Licenses

[BSD-2-Clause] [BSD-3-Clause BSD-3-Clause-Google BSD-3-Clause-Hiroshima-University] [Expat] [GPL-2.0+]

-----

Licenses of module/program 'libjpeg-turbo8:amd64':

-----

## Version

1.5.2-0ubuntu5.18.04.3

## Description

IjG JPEG compliant runtime library.

## Licenses

[LGPL-2.1]

-----

Licenses of module/program 'libjpeg8:amd64':

-----

## Version

8c-2ubuntu8

## Description

Independent JPEG Group's JPEG runtime library (dependency pa

## Licenses

[LGPL-2.1]

-----

Licenses of module/program 'libjs-jquery':

-----

## Version

3.2.1-1

## Description

JavaScript library for dynamic web applications

## Licenses

[BSD-3-clause] [GPL-2] [GPL-2 or MIT] [MIT] [MIT or BSD-3-clause or GPL-2]

-----

Licenses of module/program 'libjson-c3:amd64':

-----

## Version

0.12.1-1.3

## Description

JSON manipulation library - shared library

## Licenses

[MIT]

-----

Licenses of module/program 'libk5crypto3:amd64':

-----

## Version

1.16-2ubuntu0.1

## Description

MIT Kerberos runtime libraries - Crypto Library

## Licenses

[GPL-2]

-----

Licenses of module/program 'libkeyutils1:amd64':

-----

## Version

1.5.9-9.2ubuntu2

## Description

Linux Key Management Utilities (library)

## Licenses

[GPL-2+] [LGPL-2+]

-----

Licenses of module/program 'libklibc':

-----

## Version

2.0.4-9ubuntu2

Description  
minimal libc subset for use with initramfs  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libkmod2:amd64':

-----

Version  
24-1ubuntu3.2  
Description  
libkmod shared library  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libkrb5-26-heimdal:amd64':

-----

Version  
7.5.0+dfsg-1  
Description  
Heimdal Kerberos - libraries  
Licenses  
[BSD-3-clause custom] [GPL-2+ none]

-----

Licenses of module/program 'libkrb5-3:amd64':

-----

Version  
1.16-2ubuntu0.1  
Description  
MIT Kerberos runtime libraries  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libkrb5support0:amd64':

-----

Version  
1.16-2ubuntu0.1  
Description  
MIT Kerberos runtime libraries - Support library  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libksba8:amd64':

-----

Version  
1.3.5-2  
Description  
X.509 and CMS support library  
Licenses  
[GPL-3]

-----

Licenses of module/program 'libkyotocabinet16v5:amd64':

-----

Version  
1.2.76-4.2

Description  
Straightforward implementation of DBM - shared library  
Licenses  
[FOSS Exception GPL-3+] [GPL-3+ or FOSS Exception or Link Exception Link Exception]

-----

Licenses of module/program 'liblab-gamut1':

-----

Version  
2.40.1-2  
Description  
rich set of graph drawing tools - liblab\_gamut library  
Licenses  
[EPL-1.0] [MIT X/MIT zlib-style]

-----

Licenses of module/program 'liblcms2-2:amd64':

-----

Version  
2.9-1ubuntu0.1  
Description  
Little CMS 2 color management library  
Licenses  
[GPL-2+] [MIT]

-----

Licenses of module/program 'libldap-2.4-2:amd64':

-----

Version  
2.4.45+dfsg-1ubuntu1.4  
Description  
OpenLDAP libraries  
Licenses  
[unknown]

-----

Licenses of module/program 'libldap-common':

-----

Version  
2.4.45+dfsg-1ubuntu1.4  
Description  
OpenLDAP common files for libraries  
Licenses  
[unknown]

-----

Licenses of module/program 'libldb1:amd64':

-----

Version  
2:1.2.3-1ubuntu0.1  
Description  
LDAP-like embedded database - shared library  
Licenses  
[BSD-3-clause] [GPL-3.0+] [ISC] [LGPL-3.0+ PostgreSQL]

-----

Licenses of module/program 'liblinear3:amd64':

-----

Version  
2.1.0+dfsg-2

Description  
Library for Large Linear Classification  
Licenses  
[BSD-3-clause]

-----

Licenses of module/program 'libllvm3.9:amd64':

-----

Version  
1:3.9.1-19ubuntu1  
Description  
Modular compiler and toolchain technologies, runtime library  
Licenses  
Apple ARM [BSD-3-clause BSD-3-Clause] [Expat] [LLVM] [MIT] [NCSA] [Polly public-domain Python U-OF-I-BSD-LIKE U-OF-I-BSD-LIKE or MIT]

-----

Licenses of module/program 'libllvm9:amd64':

-----

Version  
1:9-2~ubuntu18.04.2  
Description  
Modular compiler and toolchain technologies, runtime library  
Licenses  
[APACHE-2-LLVM-EXCEPTIONS] Apple [BSD-3-clause BSD-3-Clause] [Expat] [MIT] [public-domain Python solar-public-domain U-OF-I-BSD-LIKE or MIT]

-----

Licenses of module/program 'liblocale-gettext-perl':

-----

Version  
1.07-3build2  
Description  
module using libc functions for internationalization in Perl  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'liblog-dispatch-perl':

-----

Version  
2.67-1  
Description  
message dispatcher to multiple Log::Dispatch::\* objects  
Licenses  
[Artistic] [Artistic-2.0] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'liblog-log4perl-perl':

-----

Version  
1.49-1  
Description  
Perl port of the widely popular log4j logging package  
Licenses  
[Artistic-1.0]

-----

Licenses of module/program 'liblqr-1-0:amd64':

-----

Version  
0.4.2-2.1

Description  
converts plain array images into multi-size representation  
Licenses  
[GPL-3] [LGPL-3]

-----

Licenses of module/program 'liblsan0:amd64':

-----

Version  
8.4.0-1ubuntu1~18.04  
Description  
LeakSanitizer -- a memory leak detector (runtime)  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libltdl7:amd64':

-----

Version  
2.4.6-2  
Description  
System independent dlopen wrapper for GNU libtool  
Licenses  
[GFDL] [GPL]

-----

Licenses of module/program 'liblua5.2-0:amd64':

-----

Version  
5.2.4-1.1build1  
Description  
Shared library for the Lua interpreter version 5.2  
Licenses  
[Expat]

-----

Licenses of module/program 'liblua5.3-0:amd64':

-----

Version  
5.3.3-1ubuntu0.18.04.1  
Description  
Shared library for the Lua interpreter version 5.3  
Licenses  
[Expat]

-----

Licenses of module/program 'liblvm2app2.2:amd64':

-----

Version  
2.02.176-4.1ubuntu3.18.04.2  
Description  
LVM2 application library  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'liblvm2cmd2.02:amd64':

-----

Version  
2.02.176-4.1ubuntu3.18.04.2



Description  
LVM2 command library  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'liblwp-mediatypes-perl':

-----

Version  
6.02-1  
Description  
module to guess media type for a file or a URL  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'liblwp-protocol-https-perl':

-----

Version  
6.07-2  
Description  
HTTPS driver for LWP::UserAgent  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'liblwres160:amd64':

-----

Version  
1:9.11.3+dfsg-1ubuntu1.11  
Description  
Lightweight Resolver Library used by BIND  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [ISC] [ISC or MPL-2.0] [MPL-2.0] [MPL-2.0 or ISC]

-----

Licenses of module/program 'liblxc-common':

-----

Version  
3.0.3-0ubuntu1~18.04.1  
Description  
Linux Containers userspace tools (common tools)  
Licenses  
[BSD-2-clause] [GPL-2] [LGPL-2.1+]

-----

Licenses of module/program 'liblxc1':

-----

Version  
3.0.3-0ubuntu1~18.04.1  
Description  
Linux Containers userspace tools (library)  
Licenses  
[BSD-2-clause] [GPL-2] [LGPL-2.1+]

-----

Licenses of module/program 'liblz4-1:amd64':

-----

Version  
0.0~r131-2ubuntu3

## Description

Fast LZ compression algorithm library - runtime

## Licenses

[BSD-2-clause] [GPL-2+]

-----

Licenses of module/program 'liblzma5:amd64':

-----

## Version

5.2.2-1.3

## Description

XZ-format compression library

## Licenses

Autoconf config-h [GPL-2] [GPL-2+] [LGPL-2.1+] noderivs none PD PD-debian permissive-fsf permissive-nowarranty probably-PD

-----

Licenses of module/program 'liblz2-2:amd64':

-----

## Version

2.08-1.2

## Description

data compression library

## Licenses

[GPL-2]

-----

Licenses of module/program 'libmagic-mgc':

-----

## Version

1:5.32-2ubuntu0.3

## Description

File type determination library using "magic" numbers (comp)

## Licenses

[BSD-2-Clause-alike BSD-2-Clause-netbsd BSD-2-Clause-regents] [MIT-Old-Style-with-legal-disclaimer-2 public-domain]

-----

Licenses of module/program 'libmagic1:amd64':

-----

## Version

1:5.32-2ubuntu0.3

## Description

Recognize the type of data in a file using "magic" numbers -

## Licenses

[BSD-2-Clause-alike BSD-2-Clause-netbsd BSD-2-Clause-regents] [MIT-Old-Style-with-legal-disclaimer-2 public-domain]

-----

Licenses of module/program 'libmagickcore-6.q16-3:amd64':

-----

## Version

8:6.9.7.4+dfsg-16ubuntu6.8

## Description

low-level image manipulation library -- quantum depth Q16

## Licenses

[BSD-with-FSF-change-public-domain] [GNU-All-Permissive-License] [GPL-2+ GPL2+-with-Autoconf-Macros-exception] [GPL3+-with-Autoconf-Macros-exception GPL3+-with-Autoconf-Macros-exception-GNU] [ImageMagick ImageMagickLicensePartEZXML ImageMagickLicensePartFIG ImageMagickLicensePartGview ImageMagickLicensePartOpenSSH ImageMagickPartGraphicsMagick ImageMagickPartlibjpeg ImageMagickPartlibsquish] [LGPL-3+] Magick++ Perlliklicense TatcherUlrichPublicDomain

-----

Licenses of module/program 'libmagickcore-6.q16-3-extra:am':

-----

Version  
8:6.9.7.4+dfsg-16ubuntu6.8  
Description  
low-level image manipulation library - extra codecs (Q16)  
Licenses  
[BSD-with-FSF-change-public-domain] [GNU-All-Permissive-License] [GPL-2+ GPL2+-with-Autoconf-Macros-exception] [GPL3+-with-Autoconf-Macros-exception GPL3+-with-Autoconf-Macros-exception-GNU] [ImageMagick ImageMagickLicensePartEZXML ImageMagickLicensePartFIG ImageMagickLicensePartGsview ImageMagickLicensePartOpenSSH ImageMagickPartGraphicsMagick ImageMagickPartlibjpeg ImageMagickPartlibsquish] [LGPL-3+] Magick++ Perlliklicense TatcherUlrichPublicDomain

-----  
Licenses of module/program 'libmagickwand-6.q16-3:amd64':

-----  
Version  
8:6.9.7.4+dfsg-16ubuntu6.8  
Description  
image manipulation library -- quantum depth Q16  
Licenses  
[BSD-with-FSF-change-public-domain] [GNU-All-Permissive-License] [GPL-2+ GPL2+-with-Autoconf-Macros-exception] [GPL3+-with-Autoconf-Macros-exception GPL3+-with-Autoconf-Macros-exception-GNU] [ImageMagick ImageMagickLicensePartEZXML ImageMagickLicensePartFIG ImageMagickLicensePartGsview ImageMagickLicensePartOpenSSH ImageMagickPartGraphicsMagick ImageMagickPartlibjpeg ImageMagickPartlibsquish] [LGPL-3+] Magick++ Perlliklicense TatcherUlrichPublicDomain

-----  
Licenses of module/program 'libmail-dkim-perl':

-----  
Version  
0.44-1  
Description  
cryptographically identify the sender of email - perl librar  
Licenses  
[Artistic] [GPL]

-----  
Licenses of module/program 'libmail-sendmail-perl':

-----  
Version  
0.80-1  
Description  
simple way to send email from a perl script  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+ public-domain]

-----  
Licenses of module/program 'libmail-spf-perl':

-----  
Version  
2.9.0-4  
Description  
Perl implementation of Sender Policy Framework and Sender ID  
Licenses  
[BSD-3-clause]

-----  
Licenses of module/program 'libmailtools-perl':

-----  
Version  
2.18-1  
Description  
Manipulate email in perl programs  
Licenses  
[Artistic] [GPL-2]

-----

Licenses of module/program 'libmailutils5:amd64':

-----

Version  
1:3.4-1  
Description  
GNU Mail abstraction library  
Licenses  
[GFDL-NIV+] [GPL-3+] [LGPL-3+]

-----

Licenses of module/program 'libmath-random-isaac-perl':

-----

Version  
1.003-1  
Description  
Perl interface to the ISAAC PRNG Algorithm  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'libmath-random-isaac-xs-perl':

-----

Version  
1.004-2build3  
Description  
Perl implementation of the ISAAC PRNG (C/XS Accelerated)  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+] [PD] [PD or Artistic or GPL-1+]

-----

Licenses of module/program 'libmemcached11:amd64':

-----

Version  
1.0.18-4.2ubuntu0.18.04.1  
Description  
C and C++ client library to the memcached server  
Licenses  
[Bob-Jenkins BSD-3-clause BSD-3-clause-Sun BSD-3-clause-TangentOrg Paul-Hsieh RSA-Data-Security]

-----

Licenses of module/program 'libmemcachedutil2:amd64':

-----

Version  
1.0.18-4.2ubuntu0.18.04.1  
Description  
library implementing connection pooling for libmemcached  
Licenses  
Bob-Jenkins [BSD-3-clause BSD-3-clause-Sun BSD-3-clause-TangentOrg] [Paul-Hsieh] [RSA-Data-Security]

-----

Licenses of module/program 'libmime-lite-perl':

-----

Version  
3.030-2  
Description  
module for convenient MIME message creation  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libmime-types-perl':

-----

Version  
2.14-1  
Description  
Perl extension for determining MIME types and Transfer Encod  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libmnl0:amd64':

-----

Version  
1.0.4-2  
Description  
minimalistic Netlink communication library  
Licenses  
[GPL-2+] [LGPL-2.1]

-----

Licenses of module/program 'libmodule-implementation-perl':

-----

Version  
0.09-1  
Description  
module for loading one of several alternate implementations  
Licenses  
[Artistic] [Artistic-2.0] [Artistic or Artistic-2.0 or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libmodule-runtime-perl':

-----

Version  
0.016-1  
Description  
Perl module for runtime module handling  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libmount1:amd64':

-----

Version  
2.31.1-0.4ubuntu3.6  
Description  
device mounting library  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----

Licenses of module/program 'libmpc3:amd64':

-----

Version  
1.1.0-1  
Description  
multiple precision complex floating-point library  
Licenses  
[LGPL-2.1]

-----

Licenses of module/program 'libmpdec2:amd64':

-----

Version  
2.4.2-1ubuntu1  
Description  
library for decimal floating point arithmetic (runtime libra  
Licenses  
[BSD] [GPL-2+]

-----

Licenses of module/program 'libmpfr6:amd64':

-----

Version  
4.0.1-1  
Description  
multiple precision floating-point computation  
Licenses  
[GFDL-1.2] [LGPL-3]

-----

Licenses of module/program 'libmpx2:amd64':

-----

Version  
8.4.0-1ubuntu1~18.04  
Description  
Intel memory protection extensions (runtime)  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libmro-compat-perl':

-----

Version  
0.13-1  
Description  
mro::\* interface compatibility for Perls < 5.9.5  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libmspack0:amd64':

-----

Version  
0.6-3ubuntu0.3  
Description  
library for Microsoft compression formats (shared library)  
Licenses  
[LGPL-2.1]

-----

Licenses of module/program 'libmysqlclient20:amd64':

-----

Version  
5.7.29-0ubuntu0.18.04.1  
Description  
MySQL database client library  
Licenses  
[Artistic] [Artistic or GPL-2] [Boost-1.0] [BSD-2-clause] [BSD-3-clause] BSD-like [GPL-2] [GPL-2+] [ISC] [LGPL public-domain SWsoft zlib/libpng]

-----

Licenses of module/program 'libnamespace-autoclean-perl':

-----

Version  
0.28-1  
Description  
module to remove imported symbols after compilation  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libnamespace-clean-perl':

-----

Version  
0.27-1  
Description  
module for keeping imports and functions out of the current  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libncurses5:amd64':

-----

Version  
6.1-1ubuntu1.18.04  
Description  
shared libraries for terminal handling  
Licenses  
[unknown]

-----

Licenses of module/program 'libncursesw5:amd64':

-----

Version  
6.1-1ubuntu1.18.04  
Description  
shared libraries for terminal handling (wide character suppo  
Licenses  
[unknown]

-----

Licenses of module/program 'libnet-cidr-perl':

-----

Version  
0.18-1  
Description  
Manipulate IPv4/IPv6 netblocks in CIDR notation  
Licenses  
[Artistic] [GPL]

-----

Licenses of module/program 'libnet-dns-perl':

-----

Version  
1.10-2  
Description  
Perform DNS queries from a Perl script  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libnet-http-perl':

-----

Version  
6.17-1  
Description  
module providing low-level HTTP connection client  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libnet-ip-perl':

-----

Version  
1.26-1  
Description  
Perl extension for manipulating IPv4/IPv6 addresses  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+] [MIT]

-----

Licenses of module/program 'libnet-rblclient-perl':

-----

Version  
0.5-3  
Description  
module to query multiple Realtime Blackhole Lists in parallel  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libnet-server-perl':

-----

Version  
2.009-1  
Description  
extensible, general perl server engine  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libnet-smtp-ssl-perl':

-----

Version  
1.04-1  
Description  
Perl module providing SSL support to Net::SMTP  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libnet-snmp-perl':

-----

Version  
6.0.1-3  
Description  
Script SNMP connections  
Licenses  
[Artistic] [GPL-1+] [GPL-1+ or Artistic]



-----

Licenses of module/program 'libnet-ssleay-perl':

-----

Version  
1.84-1ubuntu0.2  
Description  
Perl module for Secure Sockets Layer (SSL)  
Licenses  
[Artistic Artistic-2.0 Artistic or GPL-1+ GPL-1+]

-----

Licenses of module/program 'libnet-xwhois-perl':

-----

Version  
0.90-4  
Description  
Whois Client Interface for Perl5  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'libnetaddr-ip-perl':

-----

Version  
4.079+dfsg-1build2  
Description  
IP address manipulation module  
Licenses  
[Artistic] [Artistic or GPL-1+] [Artistic or GPL-2+] [GPL-1+] [GPL-2+] [GPL-3+]

-----

Licenses of module/program 'libnetfilter-contrack3:amd64':

-----

Version  
1.0.6-2  
Description  
Netfilter netlink-contrack library  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'libnetpbm10':

-----

Version  
2:10.0-15.3build1  
Description  
Graphics conversion tools shared libraries  
Licenses  
[BSD] [GPL]

-----

Licenses of module/program 'libnettle6:amd64':

-----

Version  
3.4-1  
Description  
low level cryptographic library (symmetric and one-way crypt  
Licenses  
[GAP] [GPL-2] [GPL-2+] [GPL-2+ with Autoconf exception] [LGPL-2+] [LGPL-2.1+ other public-domain]

-----

Licenses of module/program 'libnewt0.52:amd64':

-----

Version  
0.52.20-1ubuntu1  
Description  
Not Erik's Windowing Toolkit - text mode windowing with slant  
Licenses  
[LGPL-2]

-----

Licenses of module/program 'libnfnetlink0:amd64':

-----

Version  
1.0.1-3  
Description  
Netfilter netlink library  
Licenses  
[GPL]

-----

Licenses of module/program 'libnghttp2-14:amd64':

-----

Version  
1.30.0-1ubuntu1  
Description  
library implementing HTTP/2 protocol (shared library)  
Licenses  
[all-permissive BSD-2-clause] [Expat] [GPL-3+ with autoconf exception] [MIT] [SIL-OFL-1.1]

-----

Licenses of module/program 'libnih1:amd64':

-----

Version  
1.0.3-6ubuntu2  
Description  
NIH Utility Library  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libnl-3-200:amd64':

-----

Version  
3.2.29-0ubuntu3  
Description  
library for dealing with netlink sockets  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libnl-genl-3-200:amd64':

-----

Version  
3.2.29-0ubuntu3  
Description  
library for dealing with netlink sockets - generic netlink  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libnpth0:amd64':

-----

Version  
1.5-3  
Description  
replacement for GNU Pth using system threads  
Licenses  
[LGPL-2.1+]

-----

Licenses of module/program 'libnspr4:amd64':

-----

Version  
2:4.18-1ubuntu1  
Description  
NetScape Portable Runtime Library  
Licenses  
[Mozilla Public License]

-----

Licenses of module/program 'libnss-mdns:amd64':

-----

Version  
0.10-8ubuntu1  
Description  
NSS module for Multicast DNS name resolution  
Licenses  
[LGPL-2+]

-----

Licenses of module/program 'libnss-systemd:amd64':

-----

Version  
237-3ubuntu10.39  
Description  
nss module providing dynamic user and group name resolution  
Licenses  
[CC0-1.0] [Expat] [GPL-2] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'libnss3:amd64':

-----

Version  
2:3.35-2ubuntu2.7  
Description  
Network Security Service libraries  
Licenses  
[Mozilla Public License]

-----

Licenses of module/program 'libntfs-3g88':

-----

Version  
1:2017.3.23-2ubuntu0.18.04.2  
Description  
read/write NTFS driver for FUSE (runtime library)  
Licenses  
[GPL-2+] [LGPL-2+]

-----

Licenses of module/program 'libntlm0:amd64':

-----

Version  
1.4-8  
Description  
NTLM authentication library  
Licenses  
[LGPL-2+]

-----

Licenses of module/program 'libnuma1:amd64':

-----

Version  
2.0.11-2.1ubuntu0.1  
Description  
Libraries for controlling NUMA policy  
Licenses  
[GPL] [LGPL]

-----

Licenses of module/program 'libogg0:amd64':

-----

Version  
1.3.2-1  
Description  
Ogg bitstream library  
Licenses  
[unknown]

-----

Licenses of module/program 'libopenexr22:amd64':

-----

Version  
2.2.0-11.1ubuntu1.1  
Description  
runtime files for the OpenEXR image library  
Licenses  
[openexr]

-----

Licenses of module/program 'libp11-kit0:amd64':

-----

Version  
0.23.9-2  
Description  
library for loading and coordinating access to PKCS#11 modul  
Licenses  
[BSD-3-Clause] [ISC ISC+IBM permissive-like-automake-output same-as-rest-of-p11kit]

-----

Licenses of module/program 'libpackage-stash-perl':

-----

Version  
0.37-1  
Description  
module providing routines for manipulating stashes  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libpackage-stash-xs-perl':

-----

Version  
0.28-3build2  
Description  
Perl module providing routines for manipulating stashes (XS  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libpadwalker-perl':

-----

Version  
2.3-1  
Description  
module to inspect and manipulate lexical variables  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libpam-modules:amd64':

-----

Version  
1.1.8-3.6ubuntu2.18.04.1  
Description  
Pluggable Authentication Modules for PAM  
Licenses  
[GPL]

-----

Licenses of module/program 'libpam-modules-bin':

-----

Version  
1.1.8-3.6ubuntu2.18.04.1  
Description  
Pluggable Authentication Modules for PAM - helper binaries  
Licenses  
[GPL]

-----

Licenses of module/program 'libpam-runtime':

-----

Version  
1.1.8-3.6ubuntu2.18.04.1  
Description  
Runtime support for the PAM library  
Licenses  
[GPL]

-----

Licenses of module/program 'libpam-systemd:amd64':

-----

Version  
237-3ubuntu10.39  
Description  
system and service manager - PAM module  
Licenses  
[CC0-1.0] [Expat] [GPL-2] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'libpam0g:amd64':

-----

Version  
1.1.8-3.6ubuntu2.18.04.1  
Description  
Pluggable Authentication Modules library  
Licenses  
[GPL]

-----

Licenses of module/program 'libpango-1.0-0:amd64':

-----

Version  
1.40.14-1ubuntu0.1  
Description  
Layout and rendering of internationalized text  
Licenses  
[LGPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libpangocairo-1.0-0:amd64':

-----

Version  
1.40.14-1ubuntu0.1  
Description  
Layout and rendering of internationalized text  
Licenses  
[LGPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libpangoft2-1.0-0:amd64':

-----

Version  
1.40.14-1ubuntu0.1  
Description  
Layout and rendering of internationalized text  
Licenses  
[LGPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libpaper-utils':

-----

Version  
1.1.24+nmu5ubuntu1  
Description  
library for handling paper characteristics (utilities)  
Licenses  
[GPL]

-----

Licenses of module/program 'libpaper1:amd64':

-----

Version  
1.1.24+nmu5ubuntu1  
Description  
library for handling paper characteristics  
Licenses  
[GPL]

-----

Licenses of module/program 'libparams-classify-perl':

-----

Version  
0.015-1  
Description  
Perl module for argument type classification  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libparams-util-perl':

-----

Version  
1.07-3build3  
Description  
Perl extension for simple stand-alone param checking functio  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libparams-validationcompiler-p':

-----

Version  
0.26-1  
Description  
module to build an optimized subroutine parameter validator  
Licenses  
[Artistic] [Artistic-2.0] [Artistic or Artistic-2.0 or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libparse-syslog-perl':

-----

Version  
1.10-2ubuntu1  
Description  
perl module for parsing syslog entries  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'libparted2:amd64':

-----

Version  
3.2-20ubuntu0.2  
Description  
disk partition manipulator - shared library  
Licenses  
[GPL-3]

-----

Licenses of module/program 'libpathplan4':

-----

Version  
2.40.1-2  
Description  
rich set of graph drawing tools - pathplan library  
Licenses  
[EPL-1.0] [MIT X/MIT zlib-style]

-----

Licenses of module/program 'libpcap0.8:amd64':

-----

Version  
1.8.1-6ubuntu1.18.04.1  
Description  
system interface for user-level packet capture  
Licenses  
[BSD license]

-----

Licenses of module/program 'libpci-dev':

-----

Version  
1:3.5.2-1ubuntu1.1  
Description  
Linux PCI Utilities (development files)  
Licenses  
[unknown]

-----

Licenses of module/program 'libpci3:amd64':

-----

Version  
1:3.5.2-1ubuntu1.1  
Description  
Linux PCI Utilities (shared library)  
Licenses  
[unknown]

-----

Licenses of module/program 'libpciaccess0:amd64':

-----

Version  
0.14-1  
Description  
Generic PCI access library for X  
Licenses  
[GPL]

-----

Licenses of module/program 'libpcre3:amd64':

-----

Version  
2:8.39-9  
Description  
Old Perl 5 Compatible Regular Expression Library - runtime f  
Licenses  
["BSD" LICENCE "BSD" License]

-----

Licenses of module/program 'libpcsclite1:amd64':

-----

Version  
1.8.23-1  
Description  
Middleware to access a smart card using PC/SC (library)  
Licenses  
[BSD-3-clause] [Expat] [GPL-3+] [ISC]



-----

Licenses of module/program 'libperl5.26:amd64':

-----

Version

5.26.1-6ubuntu0.3

Description

shared Perl library

Licenses

[Artistic] [Artistic-2 Artistic-dist] [Artistic or GPL-1+ or Artistic-dist] [BSD-3-clause BSD-3-clause-GENERIC BSD-3-clause-with-weird-numbering] [BSD-4-clause-POWERDOG] BZIP [CC0-1.0] DONT-CHANGE-THE-GPL [Expat] [Expat or GPL-1+ or Artistic] [GPL-1+] [GPL-1+ or Artistic] [GPL-1+ or Artistic, GPL-1+ or Artistic or Artistic-dist] [GPL-2+] [GPL-2+ or Artistic GPL-3+-WITH-BISON-EXCEPTION] [HSIEH-BSD HSIEH-DERIVATIVE LGPL-2.1 REGCOMP REGCOMP, RRA-KEEP-THIS-NOTICE S2P SDBM-PUBLIC-DOMAIN TEXT-TABS Unicode ZLIB]

-----

Licenses of module/program 'libpipeline1:amd64':

-----

Version

1.5.0-1

Description

pipeline manipulation library

Licenses

[GPL-2+] [GPL-3+]

-----

Licenses of module/program 'libpixman-1-0:amd64':

-----

Version

0.34.0-2

Description

pixel-manipulation library for X and cairo

Licenses

[MIT license]

-----

Licenses of module/program 'libplymouth4:amd64':

-----

Version

0.9.3-1ubuntu7.18.04.2

Description

graphical boot animation and logger - shared libraries

Licenses

[GPL-2+ other]

-----

Licenses of module/program 'libpng16-16:amd64':

-----

Version

1.6.34-1ubuntu0.18.04.2

Description

PNG library - runtime (version 1.6)

Licenses

[Apache-2.0] [BSD-3-clause BSD-like-with-advertising-clause] [expat] [GPL-2+] [GPL-2+ or BSD-like-with-advertising-clause] [libpng] [libpng OR Apache-2.0 OR BSD-3-clause]

-----

Licenses of module/program 'libpolkit-agent-1-0:amd64':

-----

Version

0.105-20ubuntu0.18.04.5

Description

PolicyKit Authentication Agent API  
Licenses  
[Apache-2.0] [LGPL-2.0+]

-----

Licenses of module/program 'libpolkit-backend-1-0:amd64':

-----

Version  
0.105-20ubuntu0.18.04.5  
Description  
PolicyKit backend API  
Licenses  
[Apache-2.0] [LGPL-2.0+]

-----

Licenses of module/program 'libpolkit-gobject-1-0:amd64':

-----

Version  
0.105-20ubuntu0.18.04.5  
Description  
PolicyKit Authorization API  
Licenses  
[Apache-2.0] [LGPL-2.0+]

-----

Licenses of module/program 'libpopt0:amd64':

-----

Version  
1.16-11  
Description  
lib for parsing cmdline parameters  
Licenses  
[GPL-2+] [X-Consortium]

-----

Licenses of module/program 'libpq5:amd64':

-----

Version  
10.12-0ubuntu0.18.04.1  
Description  
PostgreSQL C client library  
Licenses  
b1f [BSD-2-clause] [BSD-3-clause] Custom-pg\_dump Custom-regex Custom-Unicode double-metaphone imath nagaysau-ishii PostgreSQL rijndael Tcl

-----

Licenses of module/program 'libprocps6:amd64':

-----

Version  
2:3.3.12-3ubuntu1.2  
Description  
library for accessing process information from /proc  
Licenses  
[GPL-2.0+] [LGPL-2.0+] [LGPL-2.1+]

-----

Licenses of module/program 'libpsl5:amd64':

-----

Version  
0.19.1-5build1  
Description

Library for Public Suffix List (shared libraries)

Licenses  
[Chromium] [MIT]

-----

Licenses of module/program 'libpthread-stubs0-dev:amd64':

-----

Version  
0.3-4  
Description  
pthread stubs not provided by native libc, development files  
Licenses  
[unknown]

-----

Licenses of module/program 'libpulse0:amd64':

-----

Version  
1:11.1-1ubuntu7.5  
Description  
PulseAudio client libraries  
Licenses  
[GPL-2] [LGPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libpython-stdlib:amd64':

-----

Version  
2.7.15~rc1-1  
Description  
interactive high-level object-oriented language (default pyt  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'libpython2.7:amd64':

-----

Version  
2.7.17-1~18.04ubuntu1  
Description  
Shared Python runtime library (version 2.7)  
Licenses  
[Apache-2.0] [GPL-2]

-----

Licenses of module/program 'libpython2.7-minimal:amd64':

-----

Version  
2.7.17-1~18.04ubuntu1  
Description  
Minimal subset of the Python language (version 2.7)  
Licenses  
[Apache-2.0] [GPL-2]

-----

Licenses of module/program 'libpython2.7-stdlib:amd64':

-----

Version  
2.7.17-1~18.04ubuntu1 []  
Description

Interactive high-level object-oriented language (standard li  
Licenses  
[Apache-2.0 GPL-2]

-----

Licenses of module/program 'libpython3-stdlib:amd64':

-----

Version  
3.6.7-1~18.04  
Description  
interactive high-level object-oriented language (default py  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'libpython3.6:amd64':

-----

Version  
3.6.9-1~18.04ubuntu1  
Description  
Shared Python runtime library (version 3.6)  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libpython3.6-minimal:amd64':

-----

Version  
3.6.9-1~18.04ubuntu1  
Description  
Minimal subset of the Python language (version 3.6)  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libpython3.6-stdlib:amd64':

-----

Version  
3.6.9-1~18.04ubuntu1  
Description  
Interactive high-level object-oriented language (standard li  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libquadmath0:amd64':

-----

Version  
8.4.0-1ubuntu1~18.04  
Description  
GCC Quad-Precision Math Library  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libreadline5:amd64':

-----

Version  
5.2+dfsg-3build1  
Description

GNU readline and history libraries, run-time libraries  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libreadline7:amd64':

-----

Version  
7.0-3  
Description  
GNU readline and history libraries, run-time libraries  
Licenses  
[GFDL] [GPL-3]

-----

Licenses of module/program 'libreadonly-perl':

-----

Version  
2.050-1  
Description  
facility for creating read-only scalars, arrays and hashes  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libref-util-perl':

-----

Version  
0.203-1  
Description  
set of utility functions for checking references  
Licenses  
[Artistic] [Artistic or GPL-1+] [Expat] [GPL-1+]

-----

Licenses of module/program 'libref-util-xs-perl':

-----

Version  
0.116-1  
Description  
XS implementation for Ref::Util  
Licenses  
[Artistic] [Artistic or GPL-1+] [Expat] [GPL-1+]

-----

Licenses of module/program 'librenms158':

-----

Version  
1.0  
Description  
Librenms paquete deb version 1.0 release 1.58  
Licenses  
[unknown]

-----

Licenses of module/program 'libroken18-heimdal:amd64':

-----

Version  
7.5.0+dfsg-1  
Description

Heimdal Kerberos - roken support library  
Licenses  
[BSD-3-clause custom] [GPL-2+ none]

-----

Licenses of module/program 'librole-tiny-perl':

-----

Version  
2.000006-1  
Description  
Perl module for minimalist role composition  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'librrd8:amd64':

-----

Version  
1.7.0-1build1  
Description  
time-series data storage and display system (runtime library)  
Licenses  
[BSD-2-clause] [FSF] [GPL-2] [GPL-2+] [GPL-2+ with FLOSS exception] [LGPL-2.1+] [MIT plbasename public\_domain public-domain]

-----

Licenses of module/program 'librtmp1:amd64':

-----

Version  
2.4+20151223.gitfa8646d.1-1  
Description  
toolkit for RTMP streams (shared library)  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libruby2.5:amd64':

-----

Version  
2.5.1-1ubuntu1.6  
Description  
Libraries necessary to run Ruby 2.5  
Licenses  
[3C-BSD AllPermissions] [Artistic] [BSD-2-clause] [BSD-2-clause or Ruby] [BSD-3-clause] [CC0] [CC-BY-3.0-famfamfam] [Expat] [Expat or Ruby] [GPL-1+] [GPL-1+ or Artistic] [GPL-3+] PartialGplArtisticAndRuby Permissive PreserveNotice PublicDomain Ruby [SIL-1.1] [Unicode zlib/libpng]

-----

Licenses of module/program 'libsasl2-2:amd64':

-----

Version  
2.1.27~101-g0780600+dfsg-3ubun  
Description  
Cyrus SASL - authentication abstraction library  
Licenses  
[BSD-4-clause] [GPL-3+]

-----

Licenses of module/program 'libsasl2-modules:amd64':

-----

Version  
2.1.27~101-g0780600+dfsg-3ubun

## Description

Cyrus SASL - pluggable authentication modules

## Licenses

[BSD-4-clause] [GPL-3+]

-----

Licenses of module/program 'libsasl2-modules-db:amd64':

-----

## Version

2.1.27~101-g0780600+dfsg-3ubun

## Description

Cyrus SASL - pluggable authentication modules (DB)

## Licenses

[BSD-4-clause] [GPL-3+]

-----

Licenses of module/program 'libseccomp2:amd64':

-----

## Version

2.4.1-0ubuntu0.18.04.2

## Description

high level interface to Linux seccomp filter

## Licenses

[LGPL-2.0+]

-----

Licenses of module/program 'libselinux1:amd64':

-----

## Version

2.7-2build2

## Description

SELinux runtime shared libraries

## Licenses

[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libsemanage-common':

-----

## Version

2.7-2build2

## Description

Common files for SELinux policy management libraries

## Licenses

[GPL] [LGPL]

-----

Licenses of module/program 'libsemanage1:amd64':

-----

## Version

2.7-2build2

## Description

SELinux policy management library

## Licenses

[GPL] [LGPL]

-----

Licenses of module/program 'libsensors4:amd64':

-----

## Version

1:3.4.0-4

Description  
library to read temperature/voltage/fan sensors  
Licenses  
[GPL] [GPL-2]

-----

Licenses of module/program 'libsensors4-dev':

-----

Version  
1:3.4.0-4  
Description  
lm-sensors development kit  
Licenses  
[GPL] [GPL-2]

-----

Licenses of module/program 'libsepol1:amd64':

-----

Version  
2.7-1  
Description  
SELinux library for manipulating binary security policies  
Licenses  
[GPL] [LGPL]

-----

Licenses of module/program 'libsigsegv2:amd64':

-----

Version  
2.12-1  
Description  
Library for handling page faults in a portable way  
Licenses  
[GPL-2+] [GPL-2+ with Autoconf exception] [permissive-fsf permissive-other]

-----

Licenses of module/program 'libslang2:amd64':

-----

Version  
2.3.1a-3ubuntu1  
Description  
S-Lang programming library - runtime version  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'libsm-dev:amd64':

-----

Version  
2:1.2.2-1  
Description  
X11 Session Management library (development headers)  
Licenses  
[unknown]

-----

Licenses of module/program 'libsm6:amd64':

-----

Version  
2:1.2.2-1



Description  
X11 Session Management library  
Licenses  
[unknown]

-----

Licenses of module/program 'libsmartcols1:amd64':

-----

Version  
2.31.1-0.4ubuntu3.6  
Description  
smart column output alignment library  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----

Licenses of module/program 'libsmbclient:amd64':

-----

Version  
2:4.7.6+dfsg~ubuntu-0ubuntu2.1  
Description  
shared library for communication with SMB/CIFS servers  
Licenses  
[BSD-3] [GPL-3] [GPL-3+] [LGPL-3+] MS-ADSL

-----

Licenses of module/program 'libsndfile1:amd64':

-----

Version  
1.0.28-4ubuntu0.18.04.1  
Description  
Library for reading/writing audio files  
Licenses  
[Apache-2.0] [BSD-3-clause] [FSFAP] [GPL-2+] gsm [LGPL-2+] [LGPL-2.1+ sun]

-----

Licenses of module/program 'libsnmp-base':

-----

Version  
5.7.3+dfsg-1.8ubuntu3.3  
Description  
SNMP configuration script, MIBs and documentation  
Licenses  
[BSD license]

-----

Licenses of module/program 'libsnmp-dev':

-----

Version  
5.7.3+dfsg-1.8ubuntu3.3  
Description  
SNMP (Simple Network Management Protocol) development files  
Licenses  
[unknown]

-----

Licenses of module/program 'libsnmp30:amd64':

-----

Version  
5.7.3+dfsg-1.8ubuntu3.3

Description  
SNMP (Simple Network Management Protocol) library  
Licenses  
[unknown]

-----

Licenses of module/program 'libsocket6-perl':

-----

Version  
0.27-1build2  
Description  
Perl extensions for IPv6  
Licenses  
[BSD-3-Clause] [ISC]

-----

Licenses of module/program 'libsodium23:amd64':

-----

Version  
1.0.16-2  
Description  
Network communication, cryptography and signaturing library  
Licenses  
[BSD-2-clause] [CC0] [GPL-2+] [ISC] [MIT public-domain]

-----

Licenses of module/program 'libspecio-perl':

-----

Version  
0.42-1  
Description  
Perl module providing type constraints and coercions  
Licenses  
[Artistic] [Artistic-2.0] [Artistic or Artistic-2.0 or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libsqlite3-0:amd64':

-----

Version  
3.22.0-1ubuntu0.3  
Description  
SQLite 3 shared library  
Licenses  
[GPL-2+ public-domain]

-----

Licenses of module/program 'libss2:amd64':

-----

Version  
1.44.1-1ubuntu1.3  
Description  
command-line interface parsing library  
Licenses  
[unknown]

-----

Licenses of module/program 'libssl-dev:amd64':

-----

Version  
1.1.1-1ubuntu2.1~18.04.5

Description  
Secure Sockets Layer toolkit - development files  
Licenses  
[BSD-style]

-----

Licenses of module/program 'libssl-doc':

-----

Version  
1.1.1-1ubuntu2.1~18.04.5  
Description  
Secure Sockets Layer toolkit - development documentation  
Licenses  
[BSD-style]

-----

Licenses of module/program 'libssl1.0.0:amd64':

-----

Version  
1.0.2n-1ubuntu5.3  
Description  
Secure Sockets Layer toolkit - shared libraries  
Licenses  
[BSD-style]

-----

Licenses of module/program 'libssl1.1:amd64':

-----

Version  
1.1.1-1ubuntu2.1~18.04.5  
Description  
Secure Sockets Layer toolkit - shared libraries  
Licenses  
[BSD-style]

-----

Licenses of module/program 'libstdc++6:amd64':

-----

Version  
8.4.0-1ubuntu1~18.04  
Description  
GNU Standard C++ Library v3  
Licenses  
[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libsub-exporter-perl':

-----

Version  
0.987-1  
Description  
sophisticated exporter for custom-built routines  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libsub-exporter-progressive-pe':

-----

Version  
0.001013-1

Description  
module for using Sub::Exporter only if needed  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libsub-identify-perl':

-----

Version  
0.14-1  
Description  
module to retrieve names of code references  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libsub-install-perl':

-----

Version  
0.928-1  
Description  
module for installing subroutines into packages easily  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libsub-name-perl':

-----

Version  
0.21-1build1  
Description  
module for assigning a new name to referenced sub  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libsub-quote-perl':

-----

Version  
2.005000-1  
Description  
helper modules for subroutines  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libsys-hostname-long-perl':

-----

Version  
1.5-1  
Description  
Figure out the long (fully-qualified) hostname  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libsystemd0:amd64':

-----

Version  
237-3ubuntu10.39

Description  
systemd utility library  
Licenses  
[CC0-1.0] [Expat] [GPL-2] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'libtalloc2:amd64':

-----

Version  
2.1.10-2ubuntu1  
Description  
hierarchical pool based memory allocator  
Licenses  
[BSD-3] [ISC] [LGPL-3+]

-----

Licenses of module/program 'libtasn1-6:amd64':

-----

Version  
4.13-2  
Description  
Manage ASN.1 structures (runtime)  
Licenses  
[GFDL-1.3] [GPL-3] [LGPL] [LGPL-2.1]

-----

Licenses of module/program 'libtdb1:amd64':

-----

Version  
1.3.15-2  
Description  
Trivial Database - shared library  
Licenses  
[BSD-3] [GPL-3+] [ISC] [LGPL-3+]

-----

Licenses of module/program 'libterm-readkey-perl':

-----

Version  
2.37-1build1  
Description  
perl module for simple terminal control  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+ termreadkey termreadkey or Artistic or GPL-1+]

-----

Licenses of module/program 'libterm-spinner-color-perl':

-----

Version  
0.05-1  
Description  
A terminal spinner/progress bar with Unicode, color, and no  
Licenses  
[Artistic] [GPL-1]

-----

Licenses of module/program 'libtevent0:amd64':

-----

Version  
0.9.34-1

Description  
talloc-based event loop library - shared library  
Licenses  
[BSD-3] [ISC] [LGPL-3+] [PostgreSQL] PP

-----

Licenses of module/program 'libtext-charwidth-perl':

-----

Version  
0.04-7.1  
Description  
get display widths of characters on the terminal  
Licenses  
[Artistic] [GPL-2]

-----

Licenses of module/program 'libtext-iconv-perl':

-----

Version  
1.7-5build6  
Description  
converts between character sets in Perl  
Licenses  
[Artistic] [GPL-2]

-----

Licenses of module/program 'libtext-wrapi18n-perl':

-----

Version  
0.06-7.1  
Description  
internationalized substitute of Text::Wrap  
Licenses  
[Artistic] [GPL]

-----

Licenses of module/program 'libtfm1:amd64':

-----

Version  
0.13-4  
Description  
Fast multiple-precision integer library [runtime]  
Licenses  
[GPL-2+] public-domain WTFPL

-----

Licenses of module/program 'libthai-data':

-----

Version  
0.1.27-2  
Description  
Data files for Thai language support library  
Licenses  
[GPL-2+] [LGPL-2.1+]

-----

Licenses of module/program 'libthai0:amd64':

-----

Version  
0.1.27-2

Description  
Thai language support library  
Licenses  
[GPL-2+ LGPL-2.1+]

-----

Licenses of module/program 'libtiff5:amd64':

-----

Version  
4.0.9-5ubuntu0.3  
Description  
Tag Image File Format (TIFF) library  
Licenses  
[Hylafax]

-----

Licenses of module/program 'libtimedate-perl':

-----

Version  
2.3000-2  
Description  
collection of modules to manipulate date/time information  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libtinfo5:amd64':

-----

Version  
6.1-1ubuntu1.18.04  
Description  
shared low-level terminfo library for terminal handling  
Licenses  
[unknown]

-----

Licenses of module/program 'libtirpc1:amd64':

-----

Version  
0.2.5-1.2ubuntu0.1  
Description  
transport-independent RPC library  
Licenses  
[GPL-2]

-----

Licenses of module/program 'libtry-tiny-perl':

-----

Version  
0.30-1  
Description  
module providing minimalistic try/catch  
Licenses  
[Expat]

-----

Licenses of module/program 'libsans0:amd64':

-----

Version  
8.4.0-1ubuntu1~18.04

## Description

ThreadSanitizer -- a Valgrind-based detector of data races (

## Licenses

[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libubsan0:amd64':

-----

## Version

7.5.0-3ubuntu1~18.04

## Description

UBSan -- undefined behaviour sanitizer (runtime)

## Licenses

[Artistic] [GFDL-1.2] [GPL] [GPL-2] [GPL-3] [LGPL]

-----

Licenses of module/program 'libudev-dev:amd64':

-----

## Version

237-3ubuntu10.39

## Description

libudev development files

## Licenses

[CC0-1.0] [Expat] [GPL-2] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'libudev1:amd64':

-----

## Version

237-3ubuntu10.39

## Description

libudev shared library

## Licenses

[CC0-1.0] [Expat] [GPL-2] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'libunistring2:amd64':

-----

## Version

0.9.9-0ubuntu2

## Description

Unicode string library for C

## Licenses

FreeSoftware [GFDL-1.2+] [GPL-2+] [GPL-2+ with distribution exception] [GPL-3+] [GPL-3+ or GFDL-1.2+] [LGPL-3+] [LGPL-3+ or GPL-2+] [MIT]

-----

Licenses of module/program 'libunwind8:amd64':

-----

## Version

1.2.1-8

## Description

library to determine the call-chain of a program - runtime

## Licenses

[Expat] [GPL-2+]

-----

Licenses of module/program 'liburi-perl':

-----

## Version

1.73-1



Description  
module to manipulate and access URI strings  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libusb-0.1-4:amd64':

-----

Version  
2:0.1.12-31  
Description  
userspace USB programming library  
Licenses  
[LGPL-2]

-----

Licenses of module/program 'libusb-1.0-0:amd64':

-----

Version  
2:1.0.21-2  
Description  
userspace USB programming library  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'libustr-1.0-1:amd64':

-----

Version  
1.0.4-6  
Description  
Micro string library: shared library  
Licenses  
[BSD-2-clause] [GPL-2+] [LGPL-2+] [LGPL-2+ or BSD-2-clause or MIT] [MIT]

-----

Licenses of module/program 'libutempter0:amd64':

-----

Version  
1.1.6-3  
Description  
privileged helper for utmp/wtmp updates (runtime)  
Licenses  
[GPL-3] [LGPL-2.1] [LGPL-3]

-----

Licenses of module/program 'libuuid1:amd64':

-----

Version  
2.31.1-0.4ubuntu3.6  
Description  
Universally Unique ID library  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----

Licenses of module/program 'libuv1:amd64':

-----

Version  
1.18.0-3

Description  
asynchronous event notification library - runtime library  
Licenses  
[BSD-1-clause] [BSD-2-clause] [BSD-3-clause] [Expat] [ISC]

-----

Licenses of module/program 'libvariable-magic-perl':

-----

Version  
0.62-1  
Description  
module to associate user-defined magic to variables from Perl  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libvorbis0a:amd64':

-----

Version  
1.3.5-4.2  
Description  
decoder library for Vorbis General Audio Compression Codec  
Licenses  
[unknown]

-----

Licenses of module/program 'libvorbisenc2:amd64':

-----

Version  
1.3.5-4.2  
Description  
encoder library for Vorbis General Audio Compression Codec  
Licenses  
[unknown]

-----

Licenses of module/program 'libwbclient0:amd64':

-----

Version  
2:4.7.6+dfsg~ubuntu-0ubuntu2.1  
Description  
Samba winbind client library  
Licenses  
[BSD-3] [GPL-3] [GPL-3+] [LGPL-3+]

-----

Licenses of module/program 'libwebp6:amd64':

-----

Version  
0.6.1-2  
Description  
Lossy compression of digital photographic images.  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'libwind0-heimdal:amd64':

-----

Version  
7.5.0+dfsg-1

## Description

Heimdal Kerberos - stringprep implementation

## Licenses

[BSD-3-clause custom] [GPL-2+ none]

-----

Licenses of module/program 'libwinpr-crt0.1:amd64':

-----

## Version

1.1.0~git20140921.1.440916e+df

## Description

Windows Portable Runtime library (crt library)

## Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-environment0.1:amd64':

-----

## Version

1.1.0~git20140921.1.440916e+df

## Description

Windows Portable Runtime library (environment library)

## Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-file0.1:amd64':

-----

## Version

1.1.0~git20140921.1.440916e+df

## Description

Windows Portable Runtime library (file library)

## Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-handle0.1:amd64':

-----

## Version

1.1.0~git20140921.1.440916e+df

## Description

Windows Portable Runtime library (handle library)

## Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-heap0.1:amd64':

-----

## Version

1.1.0~git20140921.1.440916e+df

## Description

Windows Portable Runtime library (heap library)

## Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-interlocked0.1:amd64':

-----

## Version

1.1.0~git20140921.1.440916e+df

Description

Windows Portable Runtime library (interlocked library)

Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-library0.1:amd64':

-----

Version

1.1.0~git20140921.1.440916e+df

Description

Windows Portable Runtime library (library)

Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-path0.1:amd64':

-----

Version

1.1.0~git20140921.1.440916e+df

Description

Windows Portable Runtime library (path library)

Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-synch0.1:amd64':

-----

Version

1.1.0~git20140921.1.440916e+df

Description

Windows Portable Runtime library (synch library)

Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-sysinfo0.1:amd64':

-----

Version

1.1.0~git20140921.1.440916e+df

Description

Windows Portable Runtime library (sysinfo library)

Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-thread0.1:amd64':

-----

Version

1.1.0~git20140921.1.440916e+df

Description

Windows Portable Runtime library (thread library)

Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwinpr-utils0.1:amd64':

-----

Version

1.1.0~git20140921.1.440916e+df

## Description

Windows Portable Runtime library (utils library)

## Licenses

[Apache-2.0] [Apache-2.0 or MIT/X11~BSD-like or ISC or UNICODE] [Boost-1.0] [BSD-3-clause] [Expat] [ISC] [MIT/X11~BSD-like UNICODE]

-----

Licenses of module/program 'libwmf0.2-7:amd64':

-----

## Version

0.2.8.4-12

## Description

Windows metafile conversion library

## Licenses

[LGPL-2]

-----

Licenses of module/program 'libwrap0:amd64':

-----

## Version

7.6.q-27

## Description

Wietse Venema's TCP wrappers library

## Licenses

[unknown]

-----

Licenses of module/program 'libwrap0-dev:amd64':

-----

## Version

7.6.q-27

## Description

Wietse Venema's TCP wrappers library, development files

## Licenses

[unknown]

-----

Licenses of module/program 'libwww-perl':

-----

## Version

6.31-1ubuntu0.1

## Description

simple and consistent interface to the world-wide web

## Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'libwww-robotrules-perl':

-----

## Version

6.01-1

## Description

database of robots.txt-derived permissions

## Licenses

[Artistic] [GPL-1]

-----

Licenses of module/program 'libx11-6:amd64':

-----

## Version

2:1.6.4-3ubuntu0.2

Description  
X11 client-side library  
Licenses  
[MIT license]

-----

Licenses of module/program 'libx11-data':

-----

Version  
2:1.6.4-3ubuntu0.2  
Description  
X11 client-side library  
Licenses  
[MIT license]

-----

Licenses of module/program 'libx11-dev:amd64':

-----

Version  
2:1.6.4-3ubuntu0.2  
Description  
X11 client-side library (development headers)  
Licenses  
[MIT license]

-----

Licenses of module/program 'libx11-doc':

-----

Version  
2:1.6.4-3ubuntu0.2  
Description  
X11 client-side library (development documentation)  
Licenses  
[MIT license]

-----

Licenses of module/program 'libx11-xcb1:amd64':

-----

Version  
2:1.6.4-3ubuntu0.2  
Description  
Xlib/XCB interface library  
Licenses  
[MIT license]

-----

Licenses of module/program 'libx86emu1:amd64':

-----

Version  
1.12-1  
Description  
x86 emulation library  
Licenses  
[BSD-Style]

-----

Licenses of module/program 'libxau-dev:amd64':

-----

Version  
1:1.0.8-1

Description  
X11 authorisation library (development headers)  
Licenses  
[unknown]

-----

Licenses of module/program 'libxau6:amd64':

-----

Version  
1:1.0.8-1  
Description  
X11 authorisation library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxaw7:amd64':

-----

Version  
2:1.0.13-1  
Description  
X11 Athena Widget library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb-dri2-0:amd64':

-----

Version  
1.13-2~ubuntu18.04  
Description  
X C Binding, dri2 extension  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb-dri3-0:amd64':

-----

Version  
1.13-2~ubuntu18.04  
Description  
X C Binding, dri3 extension  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb-glx0:amd64':

-----

Version  
1.13-2~ubuntu18.04  
Description  
X C Binding, glx extension  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb-present0:amd64':

-----

Version  
1.13-2~ubuntu18.04

Description  
X C Binding, present extension  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb-render0:amd64':

-----

Version  
1.13-2~ubuntu18.04  
Description  
X C Binding, render extension  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb-shape0:amd64':

-----

Version  
1.13-2~ubuntu18.04  
Description  
X C Binding, shape extension  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb-shm0:amd64':

-----

Version  
1.13-2~ubuntu18.04  
Description  
X C Binding, shm extension  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb-sync1:amd64':

-----

Version  
1.13-2~ubuntu18.04  
Description  
X C Binding, sync extension  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb1:amd64':

-----

Version  
1.13-2~ubuntu18.04  
Description  
X C Binding  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcb1-dev:amd64':

-----

Version  
1.13-2~ubuntu18.04



Description  
X C Binding, development files  
Licenses  
[unknown]

-----

Licenses of module/program 'libxcomposite1:amd64':

-----

Version  
1:0.4.4-2  
Description  
X11 Composite extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxdamage1:amd64':

-----

Version  
1:1.1.4-3  
Description  
X11 damaged region extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxdmcp-dev:amd64':

-----

Version  
1:1.1.2-3  
Description  
X11 authorisation library (development headers)  
Licenses  
[unknown]

-----

Licenses of module/program 'libxdmcp6:amd64':

-----

Version  
1:1.1.2-3  
Description  
X11 Display Manager Control Protocol library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxext6:amd64':

-----

Version  
2:1.3.3-1  
Description  
X11 miscellaneous extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxfixes3:amd64':

-----

Version  
1:5.0.3-1

Description  
X11 miscellaneous 'fixes' extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxft2:amd64':

-----

Version  
2.3.2-1  
Description  
FreeType-based font drawing library for X  
Licenses  
[unknown]

-----

Licenses of module/program 'libxi6:amd64':

-----

Version  
2:1.7.9-1  
Description  
X11 Input extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxinerama1:amd64':

-----

Version  
2:1.1.3-1  
Description  
X11 Xinerama extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxml2:amd64':

-----

Version  
2.9.4+dfsg1-6.1ubuntu1.3  
Description  
GNOME XML library  
Licenses  
[ISC] [MIT-1]

-----

Licenses of module/program 'libxmlsec1:amd64':

-----

Version  
1.2.25-1build1  
Description  
XML security library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxmlsec1-openssl:amd64':

-----

Version  
1.2.25-1build1

Description  
Openssl engine for the XML security library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxmu6:amd64':

-----

Version  
2:1.1.2-2  
Description  
X11 miscellaneous utility library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxmu1:amd64':

-----

Version  
2:1.1.2-2  
Description  
X11 miscellaneous micro-utility library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxpm4:amd64':

-----

Version  
1:3.5.12-1  
Description  
X11 pixmap library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxrandr2:amd64':

-----

Version  
2:1.5.1-1  
Description  
X11 RandR extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxrender1:amd64':

-----

Version  
1:0.9.10-1  
Description  
X Rendering Extension client library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxshmfence1:amd64':

-----

Version  
1.3-1

## Description

X shared memory fences - shared library

## Licenses

[unknown]

-----

Licenses of module/program 'libxslt1.1:amd64':

-----

## Version

1.1.29-5ubuntu0.2

## Description

XSLT 1.0 processing library - runtime library

## Licenses

[unknown]

-----

Licenses of module/program 'libxt-dev:amd64':

-----

## Version

1:1.1.5-1

## Description

X11 toolkit intrinsics library (development headers)

## Licenses

[unknown]

-----

Licenses of module/program 'libxt6:amd64':

-----

## Version

1:1.1.5-1

## Description

X11 toolkit intrinsics library

## Licenses

[unknown]

-----

Licenses of module/program 'libxtables12:amd64':

-----

## Version

1.6.1-2ubuntu2

## Description

netfilter xtables library

## Licenses

[Artistic-2 custom] [GPL-2] [GPL-2+]

-----

Licenses of module/program 'libxtst6:amd64':

-----

## Version

2:1.2.3-1

## Description

X11 Testing -- Record extension library

## Licenses

[unknown]

-----

Licenses of module/program 'libxv1:amd64':

-----

## Version

2:1.0.11-1

Description  
X11 Video extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxxf86dga1:amd64':

-----

Version  
2:1.1.4-1  
Description  
X11 Direct Graphics Access extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libxxf86vm1:amd64':

-----

Version  
1:1.1.4-1  
Description  
X11 XFree86 video mode extension library  
Licenses  
[unknown]

-----

Licenses of module/program 'libyaml-0-2:amd64':

-----

Version  
0.1.7-2ubuntu3  
Description  
Fast YAML 1.1 parser and emitter library  
Licenses  
[Expat permissive]

-----

Licenses of module/program 'libzip4:amd64':

-----

Version  
1.1.2-1.1  
Description  
library for reading, creating, and modifying zip archives (r  
Licenses  
[GPL-3]

-----

Licenses of module/program 'libzstd1:amd64':

-----

Version  
1.3.3+dfsg-2ubuntu1.1  
Description  
fast lossless compression algorithm  
Licenses  
[BSD-3-clause-with-patent-grant] [Expat] [GPL-2] [GPL-2+] zlib

-----

Licenses of module/program 'linux-base':

-----

Version  
4.5ubuntu1.1

Description  
Linux image base package  
Licenses  
[GPL-2]

-----

Licenses of module/program 'linux-firmware':

-----

Version  
1.173.17  
Description  
Firmware for Linux kernel drivers  
Licenses  
[unknown]

-----

Licenses of module/program 'linux-generic':

-----

Version  
4.15.0-96.87  
Description  
Complete Generic Linux kernel and headers  
Licenses  
[GPL]

-----

Licenses of module/program 'linux-headers-4.15.0-47':

-----

Version  
4.15.0-47.50  
Description  
Header files related to Linux kernel version 4.15.0  
Licenses  
[GPL-2]

-----

Licenses of module/program 'linux-headers-4.15.0-47-generi':

-----

Version  
4.15.0-47.50  
Description  
Linux kernel headers for version 4.15.0 on 64 bit x86 SMP  
Licenses  
[GPL-2]

-----

Licenses of module/program 'linux-headers-4.15.0-96':

-----

Version  
4.15.0-96.97  
Description  
Header files related to Linux kernel version 4.15.0  
Licenses  
[GPL-2]

-----

Licenses of module/program 'linux-headers-4.15.0-96-generi':

-----

Version  
4.15.0-96.97

Description  
Linux kernel headers for version 4.15.0 on 64 bit x86 SMP  
Licenses  
[GPL-2]

-----

Licenses of module/program 'linux-headers-generic':

-----

Version  
4.15.0-96.87  
Description  
Generic Linux kernel headers  
Licenses  
[GPL]

-----

Licenses of module/program 'linux-image-4.15.0-47-generic':

-----

Version  
4.15.0-47.50  
Description  
Signed kernel image generic  
Licenses  
[GPL-2]

-----

Licenses of module/program 'linux-image-4.15.0-96-generic':

-----

Version  
4.15.0-96.97  
Description  
Signed kernel image generic  
Licenses  
[GPL-2]

-----

Licenses of module/program 'linux-image-generic':

-----

Version  
4.15.0-96.87  
Description  
Generic Linux kernel image  
Licenses  
[GPL]

-----

Licenses of module/program 'linux-libc-dev:amd64':

-----

Version  
4.15.0-96.97  
Description  
Linux Kernel Headers for development  
Licenses  
[GPL-2]

-----

Licenses of module/program 'linux-modules-4.15.0-47-generi':

-----

Version  
4.15.0-47.50

## Description

Linux kernel extra modules for version 4.15.0 on 64 bit x86

## Licenses

[GPL-2]

-----

Licenses of module/program 'linux-modules-4.15.0-96-generi':

-----

## Version

4.15.0-96.97

## Description

Linux kernel extra modules for version 4.15.0 on 64 bit x86

## Licenses

[GPL-2]

-----

Licenses of module/program 'linux-modules-extra-4.15.0-47-':

-----

## Version

4.15.0-47.50

## Description

Linux kernel extra modules for version 4.15.0 on 64 bit x86

## Licenses

[GPL-2]

-----

Licenses of module/program 'linux-modules-extra-4.15.0-96-':

-----

## Version

4.15.0-96.97

## Description

Linux kernel extra modules for version 4.15.0 on 64 bit x86

## Licenses

[GPL-2]

-----

Licenses of module/program 'locales':

-----

## Version

2.27-3ubuntu1

## Description

GNU C Library: National Language (locale) data [support]

## Licenses

[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'login':

-----

## Version

1:4.5-1ubuntu2

## Description

system login tools

## Licenses

[GPL-2]

-----

Licenses of module/program 'logrotate':

-----

## Version

3.11.0-0.1ubuntu1



Description  
Log rotation utility  
Licenses  
[GPL-2]

-----

Licenses of module/program 'lsb-base':

-----

Version  
9.20170808ubuntu1  
Description  
Linux Standard Base init script functionality  
Licenses  
[BSD-3-clause] [GPL-2]

-----

Licenses of module/program 'lsb-release':

-----

Version  
9.20170808ubuntu1  
Description  
Linux Standard Base version reporting utility  
Licenses  
[BSD-3-clause] [GPL-2]

-----

Licenses of module/program 'lshw':

-----

Version  
02.18-0.1ubuntu6.18.04.1  
Description  
information about hardware configuration  
Licenses  
[GPL]

-----

Licenses of module/program 'lsdf':

-----

Version  
4.89+dfsg-0.1  
Description  
Utility to list open files  
Licenses  
[BSD-4-clause] [GPL-2+] [LGPL-2+] Purdue sendmail

-----

Licenses of module/program 'ltrace':

-----

Version  
0.7.3-6ubuntu1  
Description  
Tracks runtime library calls in dynamically linked programs  
Licenses  
[GPL]

-----

Licenses of module/program 'lvm2':

-----

Version  
2.02.176-4.1ubuntu3.18.04.2

Description  
Linux Logical Volume Manager  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'lxcfs':

-----

Version  
3.0.3-0ubuntu1~18.04.2  
Description  
FUSE based filesystem for LXC  
Licenses  
[Apache-2]

-----

Licenses of module/program 'lxd':

-----

Version  
3.0.3-0ubuntu1~18.04.1  
Description  
Container hypervisor based on LXC - daemon  
Licenses  
[Apache-2] [BSD-2-clause] [BSD-3-clause] [Expat] [LGPL-2.1 with static linking exception] [LGPL-3 with static linking exception]

-----

Licenses of module/program 'lxd-client':

-----

Version  
3.0.3-0ubuntu1~18.04.1  
Description  
Container hypervisor based on LXC - client  
Licenses  
[Apache-2] [BSD-2-clause] [BSD-3-clause] [Expat] [LGPL-2.1 with static linking exception] [LGPL-3 with static linking exception]

-----

Licenses of module/program 'mailutils':

-----

Version  
1:3.4-1  
Description  
GNU mailutils utilities for handling mail  
Licenses  
[GFDL-NIV+] [GPL-3+] [LGPL-3+]

-----

Licenses of module/program 'mailutils-common':

-----

Version  
1:3.4-1  
Description  
Common files for GNU mailutils  
Licenses  
[GFDL-NIV+] [GPL-3+] [LGPL-3+]

-----

Licenses of module/program 'make':

-----

Version  
4.1-9.1ubuntu1

Description  
utility for directing compilation  
Licenses  
[GPL-3+]

-----

Licenses of module/program 'makedev':

-----

Version  
2.3.1-93ubuntu2  
Description  
creates device files in /dev  
Licenses  
[GPL]

-----

Licenses of module/program 'man-db':

-----

Version  
2.8.3-2ubuntu0.1  
Description  
on-line manual pager  
Licenses  
[GPL-2+] [GPL-3+]

-----

Licenses of module/program 'manpages':

-----

Version  
4.15-1  
Description  
Manual pages about using a GNU/Linux system  
Licenses  
[BSD-3-clause] [BSD-4-clause] [Expat] freely-redistributable [GPL-2] [GPL-2+] henry-spencer-regex LDPv1 public-domain verbatim

-----

Licenses of module/program 'manpages-dev':

-----

Version  
4.15-1  
Description  
Manual pages about using GNU/Linux for development  
Licenses  
[BSD-3-clause] [BSD-4-clause] [Expat] freely-redistributable [GPL-2] [GPL-2+] henry-spencer-regex LDPv1 public-domain verbatim

-----

Licenses of module/program 'mariadb-client':

-----

Version  
1:10.1.44-0ubuntu0.18.04.1  
Description  
MariaDB database client (metapackage depending on the latest  
Licenses  
[Artistic] [BSD-2-clause] [BSD-3-clause] [GPL-2] [GPL-2+] [GPL-2 or Artistic] [GPL-2+-with-bison-exception] [GPL-3+ GPL-3+-with-bison-exception]  
[GPL-verbatim] [LGPL] [LGPL-2] [LGPL-2.1+] [MIT/X11] public-domain SWsoft unlimited-free-doc zlib/libpng

-----

Licenses of module/program 'mariadb-client-10.1':

-----

Version

1:10.1.44-0ubuntu0.18.04.1

Description

MariaDB database client binaries

Licenses

[Artistic] [BSD-2-clause] [BSD-3-clause] [GPL-2] [GPL-2+] [GPL-2 or Artistic] [GPL-2+-with-bison-exception] [GPL-3+ GPL-3+-with-bison-exception] [GPL-verbatim] [LGPL] [LGPL-2] [LGPL-2.1+] [MIT/X11] public-domain SWsoft unlimited-free-doc zlib/libpng

-----

Licenses of module/program 'mariadb-client-core-10.1':

-----

Version

1:10.1.44-0ubuntu0.18.04.1

Description

MariaDB database core client binaries

Licenses

[Artistic] [BSD-2-clause] [BSD-3-clause] [GPL-2] [GPL-2+] [GPL-2 or Artistic] [GPL-2+-with-bison-exception] [GPL-3+ GPL-3+-with-bison-exception] [GPL-verbatim] [LGPL] [LGPL-2] [LGPL-2.1+] [MIT/X11] public-domain SWsoft unlimited-free-doc zlib/libpng

-----

Licenses of module/program 'mariadb-common':

-----

Version

1:10.1.44-0ubuntu0.18.04.1

Description

MariaDB common metapackage

Licenses

[Artistic] [BSD-2-clause] [BSD-3-clause] [GPL-2] [GPL-2+] [GPL-2 or Artistic] [GPL-2+-with-bison-exception] [GPL-3+ GPL-3+-with-bison-exception] [GPL-verbatim] [LGPL] [LGPL-2] [LGPL-2.1+] [MIT/X11] public-domain SWsoft unlimited-free-doc zlib/libpng

-----

Licenses of module/program 'mariadb-server':

-----

Version

1:10.1.44-0ubuntu0.18.04.1

Description

MariaDB database server (metapackage depending on the latest

Licenses

[Artistic] [BSD-2-clause] [BSD-3-clause] [GPL-2] [GPL-2+] [GPL-2 or Artistic] [GPL-2+-with-bison-exception] [GPL-3+ GPL-3+-with-bison-exception] [GPL-verbatim] [LGPL] [LGPL-2] [LGPL-2.1+] [MIT/X11] public-domain SWsoft unlimited-free-doc zlib/libpng

-----

Licenses of module/program 'mariadb-server-10.1':

-----

Version

1:10.1.44-0ubuntu0.18.04.1

Description

MariaDB database server binaries

Licenses

[Artistic] [BSD-2-clause] [BSD-3-clause] [GPL-2] [GPL-2+] [GPL-2 or Artistic] [GPL-2+-with-bison-exception] [GPL-3+ GPL-3+-with-bison-exception] [GPL-verbatim] [LGPL] [LGPL-2] [LGPL-2.1+] [MIT/X11] public-domain SWsoft unlimited-free-doc zlib/libpng

-----

Licenses of module/program 'mariadb-server-core-10.1':

-----

Version

1:10.1.44-0ubuntu0.18.04.1

Description

MariaDB database core server files

Licenses

[Artistic] [BSD-2-clause] [BSD-3-clause] [GPL-2] [GPL-2+] [GPL-2 or Artistic] [GPL-2+-with-bison-exception] [GPL-3+ GPL-3+-with-bison-exception] [GPL-verbatim] [LGPL] [LGPL-2] [LGPL-2.1+] [MIT/X11] public-domain SWsoft unlimited-free-doc zlib/libpng

-----

Licenses of module/program 'mawk':

-----

Version  
1.3.3-17ubuntu3  
Description  
a pattern scanning and text processing language  
Licenses  
[GPL-2]

-----

Licenses of module/program 'mdadm':

-----

Version  
4.1~rc1-3~ubuntu18.04.4  
Description  
tool to administer Linux MD arrays (software RAID)  
Licenses  
[GPL-2]

-----

Licenses of module/program 'mime-support':

-----

Version  
3.60ubuntu1  
Description  
MIME files 'mime.types' & 'mailcap', and support programs  
Licenses  
[ad-hoc Bellcore]

-----

Licenses of module/program 'mlocate':

-----

Version  
0.26-2ubuntu3.1  
Description  
quickly find files on the filesystem based on their name  
Licenses  
[GPL-2]

-----

Licenses of module/program 'monitoring-plugins-basic':

-----

Version  
2.2-3ubuntu2  
Description  
Plugins for nagios compatible monitoring systems (basic)  
Licenses  
[GPL] [GPL-3]

-----

Licenses of module/program 'monitoring-plugins-common':

-----

Version  
2.2-3ubuntu2  
Description  
Common files for plugins for nagios compatible monitoring  
Licenses  
[GPL] [GPL-3]

-----

Licenses of module/program 'monitoring-plugins-standard':

-----

Version  
2.2-3ubuntu2  
Description  
Plugins for nagios compatible monitoring systems (standard)  
Licenses  
[GPL] [GPL-3]

-----

Licenses of module/program 'mount':

-----

Version  
2.31.1-0.4ubuntu3.6  
Description  
tools for mounting and manipulating filesystems  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----

Licenses of module/program 'mtr-tiny':

-----

Version  
0.92-1  
Description  
Full screen ncurses traceroute tool  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'multiarch-support':

-----

Version  
2.27-3ubuntu1  
Description  
Transitional package to ensure multiarch compatibility  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'mysql-common':

-----

Version  
5.8+1.0.4  
Description  
MySQL database common files, e.g. /etc/mysql/my.cnf  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'nano':

-----

Version  
2.9.3-2  
Description  
small, friendly text editor inspired by Pico  
Licenses  
[GFDL-NIV+] [GFDL-NIV+ or GPL-3+] [GPL-3+]

-----

Licenses of module/program 'ncurses-base':

-----

Version  
6.1-1ubuntu1.18.04  
Description  
basic terminal type definitions  
Licenses  
[unknown]

-----

Licenses of module/program 'ncurses-bin':

-----

Version  
6.1-1ubuntu1.18.04  
Description  
terminal-related programs and man pages  
Licenses  
[unknown]

-----

Licenses of module/program 'ncurses-term':

-----

Version  
6.1-1ubuntu1.18.04  
Description  
additional terminal type definitions  
Licenses  
[unknown]

-----

Licenses of module/program 'net-tools':

-----

Version  
1.60+git20161116.90da8a0-1ubun  
Description  
NET-3 networking toolkit  
Licenses  
[GPL-2]

-----

Licenses of module/program 'netbase':

-----

Version  
5.4  
Description  
Basic TCP/IP networking system  
Licenses  
[GPL-2]

-----

Licenses of module/program 'netcat-openbsd':

-----

Version  
1.187-1ubuntu0.1  
Description  
TCP/IP swiss army knife  
Licenses  
[BSD-2-Clause] [BSD-3-Clause]

-----

Licenses of module/program 'netpbm':

-----

Version  
2:10.0-15.3build1  
Description  
Graphics conversion tools between image formats  
Licenses  
[BSD] [GPL]

-----

Licenses of module/program 'netplan.io':

-----

Version  
0.98-0ubuntu1~18.04.1  
Description  
YAML network configuration abstraction for various backends  
Licenses  
[GPL-3]

-----

Licenses of module/program 'networkd-dispatcher':

-----

Version  
1.7-0ubuntu3.3  
Description  
Dispatcher service for systemd-networkd connection status ch  
Licenses  
[GPL-3+]

-----

Licenses of module/program 'nmap':

-----

Version  
7.60-1ubuntu5  
Description  
The Network Mapper  
Licenses  
[GPL-2]

-----

Licenses of module/program 'nplan':

-----

Version  
0.98-0ubuntu1~18.04.1  
Description  
YAML network configuration abstraction - transitional packag  
Licenses  
[GPL-3]

-----

Licenses of module/program 'ntfs-3g':

-----

Version  
1:2017.3.23-2ubuntu0.18.04.2  
Description  
read/write NTFS driver for FUSE  
Licenses  
[GPL-2+] [LGPL-2+]

-----



Licenses of module/program 'ntpddate':

-----

Version  
1:4.2.8p10+dfsg-5ubuntu7.1  
Description  
client for setting system time from NTP servers  
Licenses  
[unknown]

-----

Licenses of module/program 'open-iscsi':

-----

Version  
2.0.874-5ubuntu2.7  
Description  
iSCSI initiator tools  
Licenses  
[BSD-3-clause-1 BSD-3-clause-2] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-2+ with Bison exception Patches-GPL-2+-or-BSD-4-clause public-domain]

-----

Licenses of module/program 'open-vm-tools':

-----

Version  
2:11.0.5-4ubuntu0.18.04.1  
Description  
Open VMware Tools for virtual machines hosted on VMware (CLI)  
Licenses  
[BSD-3] [GPL-2] [GPL-2+] [LGPL-2.1] [MIT(\*) MIT(\*\*)]

-----

Licenses of module/program 'openjdk-11-jdk:amd64':

-----

Version  
11.0.7+10-2ubuntu2~18.04  
Description  
OpenJDK Development Kit (JDK)  
Licenses  
[Apache-2.0] [GPL-2] [LGPL-2] [LGPL-2-1]

-----

Licenses of module/program 'openjdk-11-jdk-headless:amd64':

-----

Version  
11.0.7+10-2ubuntu2~18.04  
Description  
OpenJDK Development Kit (JDK) (headless)  
Licenses  
[Apache-2.0] [GPL-2] [LGPL-2] [LGPL-2-1]

-----

Licenses of module/program 'openjdk-11-jre:amd64':

-----

Version  
11.0.7+10-2ubuntu2~18.04  
Description  
OpenJDK Java runtime, using Hotspot JIT  
Licenses  
[Apache-2.0] [GPL-2] [LGPL-2] [LGPL-2-1]

-----

Licenses of module/program 'openjdk-11-jre-headless:amd64':

-----

Version  
11.0.7+10-2ubuntu2~18.04  
Description  
OpenJDK Java runtime, using Hotspot JIT (headless)  
Licenses  
[Apache-2.0] [GPL-2] [LGPL-2] [LGPL-2-1]

-----

Licenses of module/program 'openssh-client':

-----

Version  
1:7.6p1-4ubuntu0.3  
Description  
secure shell (SSH) client, for secure access to remote machi  
Licenses  
[Beer-ware] [BSD-2-clause] [BSD-3-clause] [Expat-with-advertising-restriction] Mazieres-BSD-style OpenSSH Powell-BSD-style public-domain

-----

Licenses of module/program 'openssh-server':

-----

Version  
1:7.6p1-4ubuntu0.3  
Description  
secure shell (SSH) server, for secure access from remote mac  
Licenses  
[Beer-ware] [BSD-2-clause] [BSD-3-clause] [Expat-with-advertising-restriction] Mazieres-BSD-style OpenSSH Powell-BSD-style public-domain

-----

Licenses of module/program 'openssh-sftp-server':

-----

Version  
1:7.6p1-4ubuntu0.3  
Description  
secure shell (SSH) sftp server module, for SFTP access from  
Licenses  
[Beer-ware] [BSD-2-clause] [BSD-3-clause] [Expat-with-advertising-restriction] Mazieres-BSD-style OpenSSH Powell-BSD-style public-domain

-----

Licenses of module/program 'openssl':

-----

Version  
1.1.1-1ubuntu2.1~18.04.5  
Description  
Secure Sockets Layer toolkit - cryptographic utility  
Licenses  
[BSD-style]

-----

Licenses of module/program 'os-prober':

-----

Version  
1.74ubuntu1  
Description  
utility to detect other OSes on a set of drives  
Licenses  
[GPL-2]

-----

Licenses of module/program 'overlayroot':

-----

Version  
0.40ubuntu1.1  
Description  
use an overlays on top of a read-only root filesystem  
Licenses  
[GPL-3.0+]

-----

Licenses of module/program 'parted':

-----

Version  
3.2-20ubuntu0.2  
Description  
disk partition manipulator  
Licenses  
[GPL-3]

-----

Licenses of module/program 'passwd':

-----

Version  
1:4.5-1ubuntu2  
Description  
change and administer password and group data  
Licenses  
[GPL-2]

-----

Licenses of module/program 'pastebinit':

-----

Version  
1.5-2  
Description  
command-line pastebin client  
Licenses  
[GPL-2]

-----

Licenses of module/program 'patch':

-----

Version  
2.7.6-2ubuntu1.1  
Description  
Apply a diff file to an original  
Licenses  
[GPL]

-----

Licenses of module/program 'pciutils':

-----

Version  
1:3.5.2-1ubuntu1.1  
Description  
Linux PCI Utilities  
Licenses  
[unknown]

-----

Licenses of module/program 'perl':

-----

Version

5.26.1-6ubuntu0.3

Description

Larry Wall's Practical Extraction and Report Language

Licenses

[Artistic Artistic-2 Artistic-dist] [Artistic or GPL-1+ or Artistic-dist] [BSD-3-clause BSD-3-clause-GENERIC BSD-3-clause-with-weird-numbering] [BSD-4-clause-POWERDOG] BZIP [CC0-1.0] DONT-CHANGE-THE-GPL [Expat] [Expat or GPL-1+ or Artistic] [GPL-1+] [GPL-1+ or Artistic] [GPL-1+ or Artistic, GPL-1+ or Artistic or Artistic-dist] [GPL-2+] [GPL-2+ or Artistic GPL-3+-WITH-BISON-EXCEPTION] Hsieh-BSD Hsieh-Derivative [LGPL-2.1] REGCOMP REGCOMP, RRA-KEEP-THIS-NOTICE S2P SDBM-PUBLIC-DOMAIN TEXT-TABS Unicode ZLIB

-----

Licenses of module/program 'perl-base':

-----

Version

5.26.1-6ubuntu0.3

Description

minimal Perl system

Licenses

[Artistic Artistic-2 Artistic-dist] [Artistic or GPL-1+ or Artistic-dist] [BSD-3-clause BSD-3-clause-GENERIC BSD-3-clause-with-weird-numbering] [BSD-4-clause-POWERDOG] BZIP [CC0-1.0] DONT-CHANGE-THE-GPL [Expat] [Expat or GPL-1+ or Artistic] [GPL-1+] [GPL-1+ or Artistic] [GPL-1+ or Artistic, GPL-1+ or Artistic or Artistic-dist] [GPL-2+] [GPL-2+ or Artistic GPL-3+-WITH-BISON-EXCEPTION] Hsieh-BSD Hsieh-Derivative [LGPL-2.1] REGCOMP REGCOMP, RRA-KEEP-THIS-NOTICE S2P SDBM-PUBLIC-DOMAIN TEXT-TABS Unicode ZLIB

-----

Licenses of module/program 'perl-modules-5.26':

-----

Version

5.26.1-6ubuntu0.3

Description

Core Perl modules

Licenses

[Artistic Artistic-2 Artistic-dist] [Artistic or GPL-1+ or Artistic-dist] [BSD-3-clause BSD-3-clause-GENERIC BSD-3-clause-with-weird-numbering] [BSD-4-clause-POWERDOG] BZIP [CC0-1.0] DONT-CHANGE-THE-GPL [Expat] [Expat or GPL-1+ or Artistic] [GPL-1+] [GPL-1+ or Artistic] [GPL-1+ or Artistic, GPL-1+ or Artistic or Artistic-dist] [GPL-2+] [GPL-2+ or Artistic GPL-3+-WITH-BISON-EXCEPTION] Hsieh-BSD Hsieh-Derivative [LGPL-2.1] REGCOMP REGCOMP, RRA-KEEP-THIS-NOTICE S2P SDBM-PUBLIC-DOMAIN TEXT-TABS Unicode ZLIB

-----

Licenses of module/program 'perl-openssl-defaults:amd64':

-----

Version

3build1

Description

version compatibility baseline for Perl OpenSSL packages

Licenses

[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'php':

-----

Version

1:7.2+60ubuntu1

Description

server-side, HTML-embedded scripting language (default)

Licenses

[Expat]

-----

Licenses of module/program 'php-cgi':

-----

Version  
1:7.2+60ubuntu1  
Description  
server-side, HTML-embedded scripting language (CGI binary) (  
Licenses  
[Expat]

-----

Licenses of module/program 'php-cli':

-----

Version  
1:7.2+60ubuntu1  
Description  
command-line interpreter for the PHP scripting language (def  
Licenses  
[Expat]

-----

Licenses of module/program 'php-cli-prompt':

-----

Version  
1.0.3+dfsg-1  
Description  
tiny helper prompting for user input  
Licenses  
[Expat]

-----

Licenses of module/program 'php-common':

-----

Version  
1:60ubuntu1  
Description  
Common files for PHP packages  
Licenses  
[Expat]

-----

Licenses of module/program 'php-composer-ca-bundle':

-----

Version  
1.1.0-1  
Description  
utility library to find a path to the system CA bundle  
Licenses  
[BSD-2-Clause] [Expat] [MPL-2.0]

-----

Licenses of module/program 'php-composer-semver':

-----

Version  
1.4.2-1  
Description  
utilities, version constraint parsing and validation  
Licenses  
[Expat]

-----

Licenses of module/program 'php-composer-spdx-licenses':

-----

Version  
1.3.0-1  
Description  
SPDX licenses list and validation library  
Licenses  
[Expat]

-----

Licenses of module/program 'php-json-schema':

-----

Version  
5.2.6-1  
Description  
implementation of JSON schema  
Licenses  
[BSD-3-clause] [Expat]

-----

Licenses of module/program 'php-mbstring':

-----

Version  
1:7.2+60ubuntu1  
Description  
MBSTRING module for PHP [default]  
Licenses  
[Expat]

-----

Licenses of module/program 'php-mysql':

-----

Version  
1:7.2+60ubuntu1  
Description  
MySQL module for PHP [default]  
Licenses  
[Expat]

-----

Licenses of module/program 'php-pear':

-----

Version  
1:1.10.5+submodules+notgz-1ubu  
Description  
PEAR Base System  
Licenses  
[BSD-2-clause] [LGPL-3.0+]

-----

Licenses of module/program 'php-psr-log':

-----

Version  
1.0.2-1  
Description  
common interface for logging libraries  
Licenses  
[Expat]

-----

Licenses of module/program 'php-symfony-console':

-----

Version  
3.4.6+dfsg-1ubuntu0.1  
Description  
run tasks from the command line  
Licenses  
[Artistic] [BSD-3-clause BSD-3-clause-cssselect BSD-3-clause-yui BSD-3-clause-zend] [CC-BY-SA-3.0] [Expat] [Expat, GPL-1+] [GPL-1+ or Artistic]

-----

Licenses of module/program 'php-symfony-debug':

-----

Version  
3.4.6+dfsg-1ubuntu0.1  
Description  
tools to make debugging of PHP code easier  
Licenses  
[Artistic] [BSD-3-clause BSD-3-clause-cssselect BSD-3-clause-yui BSD-3-clause-zend] [CC-BY-SA-3.0] [Expat] [Expat, GPL-1+] [GPL-1+ or Artistic]

-----

Licenses of module/program 'php-symfony-filesystem':

-----

Version  
3.4.6+dfsg-1ubuntu0.1  
Description  
basic filesystem utilities  
Licenses  
[Artistic] [BSD-3-clause BSD-3-clause-cssselect BSD-3-clause-yui BSD-3-clause-zend] [CC-BY-SA-3.0] [Expat] [Expat, GPL-1+] [GPL-1+ or Artistic]

-----

Licenses of module/program 'php-symfony-finder':

-----

Version  
3.4.6+dfsg-1ubuntu0.1  
Description  
find files and directories  
Licenses  
[Artistic] [BSD-3-clause BSD-3-clause-cssselect BSD-3-clause-yui BSD-3-clause-zend] [CC-BY-SA-3.0] [Expat] [Expat, GPL-1+] [GPL-1+ or Artistic]

-----

Licenses of module/program 'php-symfony-polyfill-mbstring':

-----

Version  
1.6.0-2  
Description  
Symfony polyfill for the Mbstring extension  
Licenses  
[Expat Unicode]

-----

Licenses of module/program 'php-symfony-process':

-----

Version  
3.4.6+dfsg-1ubuntu0.1  
Description  
execute commands in sub-processes  
Licenses  
[Artistic] [BSD-3-clause BSD-3-clause-cssselect BSD-3-clause-yui BSD-3-clause-zend] [CC-BY-SA-3.0] [Expat] [Expat, GPL-1+] [GPL-1+ or Artistic]

-----

Licenses of module/program 'php-xml':

-----

Version  
1:7.2+60ubuntu1  
Description  
DOM, SimpleXML, WDDX, XML, and XSL module for PHP [default]  
Licenses  
[Expat]

-----

Licenses of module/program 'php7.0':

-----

Version  
7.0.33-0ubuntu0.16.04.3  
Description  
server-side, HTML-embedded scripting language (metapackage)  
Licenses  
[BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause BSD-TSRM] [Expat] [LGPL-2.1] [PHP-3.01] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.0-cgi':

-----

Version  
7.0.33-0ubuntu0.16.04.3  
Description  
server-side, HTML-embedded scripting language (CGI binary)  
Licenses  
[BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] BSD-TSRM [Expat] [LGPL-2.1] [PHP-3.01] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.0-cli':

-----

Version  
7.0.33-0ubuntu0.16.04.3  
Description  
command-line interpreter for the PHP scripting language  
Licenses  
[BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] BSD-TSRM [Expat] [LGPL-2.1] [PHP-3.01] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.0-common':

-----

Version  
7.0.33-0ubuntu0.16.04.3  
Description  
documentation, examples and common module for PHP  
Licenses  
[BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] BSD-TSRM [Expat] [LGPL-2.1] [PHP-3.01] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.0-fpm':

-----

Version  
7.0.33-0ubuntu0.16.04.3  
Description  
server-side, HTML-embedded scripting language (FPM-CGI binar  
Licenses  
[BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] BSD-TSRM [Expat] [LGPL-2.1] [PHP-3.01] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.0-json':

-----



Version  
7.0.33-0ubuntu0.16.04.3  
Description  
JSON module for PHP  
Licenses  
[BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] BSD-TSRM [Expat] [LGPL-2.1] [PHP-3.01] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.0-opcache':

-----

Version  
7.0.33-0ubuntu0.16.04.3  
Description  
Zend OpCache module for PHP  
Licenses  
[BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] BSD-TSRM [Expat] [LGPL-2.1] [PHP-3.01] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.0-readline':

-----

Version  
7.0.33-0ubuntu0.16.04.3  
Description  
readline module for PHP  
Licenses  
[BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] BSD-TSRM [Expat] [LGPL-2.1] [PHP-3.01] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2':

-----

Version  
7.2.24-0ubuntu0.18.04.4  
Description  
server-side, HTML-embedded scripting language (metapackage)  
Licenses  
[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+] [OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-cgi':

-----

Version  
7.2.24-0ubuntu0.18.04.4  
Description  
server-side, HTML-embedded scripting language (CGI binary)  
Licenses  
[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+] [OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-cli':

-----

Version  
7.2.24-0ubuntu0.18.04.4  
Description  
command-line interpreter for the PHP scripting language  
Licenses  
[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+] [OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-common':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

documentation, examples and common module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+]  
[OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-curl':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

CURL module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+]  
[OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-gd':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

GD module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+]  
[OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-json':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

JSON module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+]  
[OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-mbstring':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

MBSTRING module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+]  
[OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-mysql':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

MySQL module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+] [OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-opcache':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

Zend OpCache module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+] [OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-readline':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

readline module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+] [OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-snmp':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

SNMP module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+] [OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-xml':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

DOM, SimpleXML, WDDX, XML, and XSL module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+] [OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'php7.2-zip':

-----

Version

7.2.24-0ubuntu0.18.04.4

Description

Zip module for PHP

Licenses

[Apache-2.0] [BSD-2-clause BSD-2-clause-libmagic] [BSD-3-clause] [BSD-4-clause] BSD-TSRM [CC0] [Expat] GD [LGPL-2+] [LGPL-2.1] [LGPL-3+] [OpenLDAP] [PHP-3.0 PHP-3.01 public-domain] [Zend-Engine-2.00]

-----

Licenses of module/program 'pinentry-curses':

-----

Version  
1.1.0-1  
Description  
curses-based PIN or pass-phrase entry dialog for GnuPG  
Licenses  
[GPL-2] [GPL-2+] [LGPL-3+] [LGPL-3+ or GPL-2+] [X11]

-----

Licenses of module/program 'plymouth':

-----

Version  
0.9.3-1ubuntu7.18.04.2  
Description  
boot animation, logger and I/O multiplexer  
Licenses  
[GPL-2+ other]

-----

Licenses of module/program 'plymouth-theme-ubuntu-text':

-----

Version  
0.9.3-1ubuntu7.18.04.2  
Description  
boot animation, logger and I/O multiplexer - ubuntu text the  
Licenses  
[GPL-2+ other]

-----

Licenses of module/program 'policykit-1':

-----

Version  
0.105-20ubuntu0.18.04.5  
Description  
framework for managing administrative policies and privilege  
Licenses  
[Apache-2.0] [LGPL-2.0+]

-----

Licenses of module/program 'pollinate':

-----

Version  
4.33-0ubuntu1~18.04.1  
Description  
seed the pseudo random number generator  
Licenses  
[GPL-3]

-----

Licenses of module/program 'poppler-data':

-----

Version  
0.4.8-2  
Description  
encoding data for the poppler PDF rendering library  
Licenses  
[AGPL-3+] [BSD-3-clause] [GPL-2] [MIT]

-----

Licenses of module/program 'popularity-contest':

-----

Version  
1.66ubuntu1  
Description  
Vote for your favourite packages automatically  
Licenses  
[GPL]

-----

Licenses of module/program 'postfix':

-----

Version  
3.3.0-1ubuntu0.2  
Description  
High-performance mail transport agent  
Licenses  
[unknown]

-----

Licenses of module/program 'postfix-pcre':

-----

Version  
3.3.0-1ubuntu0.2  
Description  
PCRE map support for Postfix  
Licenses  
[unknown]

-----

Licenses of module/program 'postgrey':

-----

Version  
1.36-5  
Description  
greylisting implementation for Postfix  
Licenses  
[GPL-2]

-----

Licenses of module/program 'powermgmt-base':

-----

Version  
1.33  
Description  
common utils for power management  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'procmail':

-----

Version  
3.22-26  
Description  
Versatile e-mail processor  
Licenses  
[Artistic] [GPL]

-----

Licenses of module/program 'procmail-wrapper':

-----

Version  
1.0-2  
Description  
Suexec wrapper for procmail  
Licenses  
[unknown]

-----

Licenses of module/program 'procps':

-----

Version  
2:3.3.12-3ubuntu1.2  
Description  
/proc file system utilities  
Licenses  
[GPL-2.0+] [LGPL-2.0+] [LGPL-2.1+]

-----

Licenses of module/program 'proftpd-basic':

-----

Version  
1.3.5e-1build1  
Description  
Versatile, virtual-hosting FTP daemon - binaries  
Licenses  
[Academic BSD-3-clause] [GPL-2+]

-----

Licenses of module/program 'proftpd-doc':

-----

Version  
1.3.5e-1build1  
Description  
Versatile, virtual-hosting FTP daemon - documentation  
Licenses  
[Academic BSD-3-clause] [GPL-2+]

-----

Licenses of module/program 'psmisc':

-----

Version  
23.1-1ubuntu0.1  
Description  
utilities that use the proc file system  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'publicsuffix':

-----

Version  
20180223.1310-1  
Description  
accurate, machine-readable list of domain name suffixes  
Licenses  
[CC0] [MPL-2.0]

-----

Licenses of module/program 'python':

-----

Version  
2.7.15~rc1-1  
Description  
interactive high-level object-oriented language (default ver  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'python-apt-common':

-----

Version  
1.6.5ubuntu0.2  
Description  
Python interface to libapt-pkg (locales)  
Licenses  
[GPL-2+ Permissive]

-----

Licenses of module/program 'python-crypto':

-----

Version  
2.6.1-8ubuntu2  
Description  
cryptographic algorithms and protocols for Python  
Licenses  
[BSD-3-clause public-domain]

-----

Licenses of module/program 'python-ipaddress':

-----

Version  
1.0.17-1  
Description  
Backport of Python 3 ipaddress module (Python 2)  
Licenses  
[Expat] [PSF-2]

-----

Licenses of module/program 'python-ldb:amd64':

-----

Version  
2:1.2.3-1ubuntu0.1  
Description  
Python bindings for LDB  
Licenses  
[BSD-3-clause] [GPL-3.0+] [ISC] [LGPL-3.0+] [PostgreSQL]

-----

Licenses of module/program 'python-memcache':

-----

Version  
1.57-2ubuntu0.18.04.1  
Description  
pure Python memcached client  
Licenses  
[BSD-3-clause] [PSF-2]

-----

Licenses of module/program 'python-minimal':

-----

Version  
2.7.15~rc1-1  
Description  
minimal subset of the Python language (default version)  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'python-mysqldb':

-----

Version  
1.3.10-1build1  
Description  
Python interface to MySQL  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'python-samba':

-----

Version  
2:4.7.6+dfsg~ubuntu-0ubuntu2.1  
Description  
Python bindings for Samba  
Licenses  
[BSD-3] [GPL-3] [GPL-3+] [LGPL-3+] MS-ADSL

-----

Licenses of module/program 'python-six':

-----

Version  
1.11.0-2  
Description  
Python 2 and 3 compatibility library (Python 2 interface)  
Licenses  
[Expat]

-----

Licenses of module/program 'python-talloc':

-----

Version  
2.1.10-2ubuntu1  
Description  
hierarchical pool based memory allocator - Python bindings  
Licenses  
[BSD-3] [ISC] [LGPL-3+]

-----

Licenses of module/program 'python-tdb':

-----

Version  
1.3.15-2  
Description  
Python bindings for TDB  
Licenses  
[BSD-3] [GPL-3+] [ISC] [LGPL-3+]

-----

Licenses of module/program 'python2.7':



-----

Version  
2.7.17-1~18.04ubuntu1  
Description  
Interactive high-level object-oriented language (version 2.7)  
Licenses  
[Apache-2.0] [GPL-2]

-----

Licenses of module/program 'python2.7-minimal':

-----

Version  
2.7.17-1~18.04ubuntu1  
Description  
Minimal subset of the Python language (version 2.7)  
Licenses  
[Apache-2.0] [GPL-2]

-----

Licenses of module/program 'python3':

-----

Version  
3.6.7-1~18.04  
Description  
interactive high-level object-oriented language (default py  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'python3-apport':

-----

Version  
2.20.9-0ubuntu7.14  
Description  
Python 3 library for Apport crash report handling  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'python3-apt':

-----

Version  
1.6.5ubuntu0.2  
Description  
Python 3 interface to libapt-pkg  
Licenses  
[GPL-2+ Permissive]

-----

Licenses of module/program 'python3-asn1crypto':

-----

Version  
0.24.0-1  
Description  
Fast ASN.1 parser and serializer (Python 3)  
Licenses  
[Expat]

-----

Licenses of module/program 'python3-attr':

-----

Version  
17.4.0-2  
Description  
Attributes without boilerplate (Python 3)  
Licenses  
[Expat]

-----

Licenses of module/program 'python3-automat':

-----

Version  
0.6.0-1  
Description  
Self-service finite-state machines for the programmer on the  
Licenses  
[Expat]

-----

Licenses of module/program 'python3-certifi':

-----

Version  
2018.1.18-2  
Description  
root certificates for validating SSL certs and verifying TLS  
Licenses  
[GPL-2] [MPL-2]

-----

Licenses of module/program 'python3-cffi-backend':

-----

Version  
1.11.5-1  
Description  
Foreign Function Interface for Python 3 calling C code - run  
Licenses  
[Expat]

-----

Licenses of module/program 'python3-chardet':

-----

Version  
3.0.4-1  
Description  
universal character encoding detector for Python3  
Licenses  
[LGPL-2.1+]

-----

Licenses of module/program 'python3-click':

-----

Version  
6.7-3  
Description  
Simple wrapper around optparse for powerful command line uti  
Licenses  
[BSD-3-clause]

-----

Licenses of module/program 'python3-colorama':

-----

Version  
0.3.7-1  
Description  
Cross-platform colored terminal text in Python - Python 3.x  
Licenses  
[BSD-3] [GPL-2+]

-----

Licenses of module/program 'python3-commandnotfound':

-----

Version  
18.04.5  
Description  
Python 3 bindings for command-not-found.  
Licenses  
[GPL]

-----

Licenses of module/program 'python3-configobj':

-----

Version  
5.0.6-2  
Description  
simple but powerful config file reader and writer for Python  
Licenses  
[BSD-3-clause]

-----

Licenses of module/program 'python3-constantly':

-----

Version  
15.1.0-1  
Description  
Symbolic constants in Python  
Licenses  
[CC0] [MIT]

-----

Licenses of module/program 'python3-cryptography':

-----

Version  
2.1.4-1ubuntu1.3  
Description  
Python library exposing cryptographic recipes and primitives  
Licenses  
[Apache] [Expat]

-----

Licenses of module/program 'python3-dbus':

-----

Version  
1.2.6-1  
Description  
simple interprocess messaging system (Python 3 interface)  
Licenses  
[AFL-2.1] [Expat] [GPL-2+] [GPL-2+ or AFL-2.1]

-----

Licenses of module/program 'python3-debconf':

-----

Version  
1.5.66ubuntu1  
Description  
interact with debconf from Python 3  
Licenses  
[BSD-2-clause]

-----

Licenses of module/program 'python3-debian':

-----

Version  
0.1.32  
Description  
Python 3 modules to work with Debian-related data formats  
Licenses  
[GPL-2+] [GPL-3+]

-----

Licenses of module/program 'python3-decorator':

-----

Version  
4.1.2-1  
Description  
simplify usage of Python decorators by programmers  
Licenses  
[BSD license]

-----

Licenses of module/program 'python3-distro-info':

-----

Version  
0.18ubuntu0.18.04.1  
Description  
information about distributions' releases (Python 3 module)  
Licenses  
[ISC]

-----

Licenses of module/program 'python3-distupgrade':

-----

Version  
1:18.04.37  
Description  
manage release upgrades  
Licenses  
[Expat] [GPL-2+]

-----

Licenses of module/program 'python3-distutils':

-----

Version  
3.6.9-1~18.04  
Description  
distutils package for Python 3.x  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'python3-gdbm:amd64':

-----

Version  
3.6.9-1~18.04  
Description  
GNU dbm database support for Python 3.x  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'python3-gi':

-----

Version  
3.26.1-2ubuntu1  
Description  
Python 3 bindings for gobject-introspection libraries  
Licenses  
[Expat] [LGPL-2.1+]

-----

Licenses of module/program 'python3-httplib2':

-----

Version  
0.9.2+dfsg-1ubuntu0.1  
Description  
comprehensive HTTP client library written for Python3  
Licenses  
[BSD-3] [GPL-2+] [GPL-3+] [LGPL-2.1+] [MIT] [MPL-1.1] [MPL-1.1 or GPL-2+ or LGPL-2.1+]

-----

Licenses of module/program 'python3-hyperlink':

-----

Version  
17.3.1-2  
Description  
Immutable, Pythonic, correct URLs.  
Licenses  
[Expat]

-----

Licenses of module/program 'python3-idna':

-----

Version  
2.6-1  
Description  
Python IDNA2008 (RFC 5891) handling (Python 3)  
Licenses  
[BSD-3-clause] [PSF-2 Unicode]

-----

Licenses of module/program 'python3-incremental':

-----

Version  
16.10.1-3  
Description  
Library for versioning Python projects.  
Licenses  
[MIT]

-----

Licenses of module/program 'python3-lib2to3':

-----

Version  
3.6.9-1~18.04  
Description  
Interactive high-level object-oriented language (2to3, versi  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'python3-minimal':

-----

Version  
3.6.7-1~18.04  
Description  
minimal subset of the Python language (default python3 versi  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'python3-netifaces':

-----

Version  
0.10.4-0.1build4  
Description  
portable network interface information - Python 3.x  
Licenses  
[MIT-style]

-----

Licenses of module/program 'python3-newt:amd64':

-----

Version  
0.52.20-1ubuntu1  
Description  
NEWT module for Python3  
Licenses  
[LGPL-2]

-----

Licenses of module/program 'python3-openssl':

-----

Version  
17.5.0-1ubuntu1  
Description  
Python 3 wrapper around the OpenSSL library  
Licenses  
[Apache 2.0 This code is in the public domain.]

-----

Licenses of module/program 'python3-pam':

-----

Version  
0.4.2-13.2ubuntu4  
Description  
Python interface to the PAM library  
Licenses  
[GPL-2]

-----

Licenses of module/program 'python3-pkg-resources':

-----

Version  
39.0.1-2  
Description  
Package Discovery and Resource Access using pkg\_resources  
Licenses  
[GPL-compatible GPL-compatible licenses]

-----

Licenses of module/program 'python3-ply':

-----

Version  
3.11-1  
Description  
Lex and Yacc implementation for Python3  
Licenses  
[BSD-3-clause]

-----

Licenses of module/program 'python3-problem-report':

-----

Version  
2.20.9-0ubuntu7.14  
Description  
Python 3 library to handle problem reports  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'python3-pyasn1':

-----

Version  
0.4.2-3  
Description  
ASN.1 library for Python (Python 3 module)  
Licenses  
[BSD-2-clause] [GPL-2+]

-----

Licenses of module/program 'python3-pyasn1-modules':

-----

Version  
0.2.1-0.2  
Description  
Collection of protocols modules written in ASN.1 language (P  
Licenses  
[BSD-2-Clause] [BSD-3-Clause]

-----

Licenses of module/program 'python3-pycurl':

-----

Version  
7.43.0.1-0.2  
Description  
Python bindings to libcurl (Python 3)  
Licenses  
[LGPL-2.1] [MIT]

-----

Licenses of module/program 'python3-pyinotify':

-----

Version  
0.9.6-1  
Description  
simple Linux inotify Python bindings  
Licenses  
[Expat] [GPL-2]

-----

Licenses of module/program 'python3-requests':

-----

Version  
2.18.4-2ubuntu0.1  
Description  
elegant and simple HTTP library for Python3, built for human  
Licenses  
[Apache]

-----

Licenses of module/program 'python3-requests-unixsocket':

-----

Version  
0.1.5-3  
Description  
Use requests to talk HTTP via a UNIX domain socket - Python  
Licenses  
[Apache-2]

-----

Licenses of module/program 'python3-selinux':

-----

Version  
2.7-2build2  
Description  
Python3 bindings to SELinux shared libraries  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'python3-serial':

-----

Version  
3.4-2  
Description  
pyserial - module encapsulating access for the serial port  
Licenses  
[unknown]

-----

Licenses of module/program 'python3-service-identity':

-----

Version  
16.0.0-2  
Description  
Service identity verification for pyOpenSSL (Python 3 module)  
Licenses  
[Expat]

-----

Licenses of module/program 'python3-six':



-----

Version  
1.11.0-2  
Description  
Python 2 and 3 compatibility library (Python 3 interface)  
Licenses  
[Expat]

-----

Licenses of module/program 'python3-slip':

-----

Version  
0.6.5-2  
Description  
miscellaneous convenience, extension and workaround code for  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'python3-slip-dbus':

-----

Version  
0.6.5-2  
Description  
convenience functions for D-Bus services  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'python3-software-properties':

-----

Version  
0.96.24.32.12  
Description  
manage the repositories that you install software from  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'python3-systemd':

-----

Version  
234-1build1  
Description  
Python 3 bindings for systemd  
Licenses  
[LGPL-2.1+]

-----

Licenses of module/program 'python3-twisted':

-----

Version  
17.9.0-2ubuntu0.1  
Description  
Event-based framework for internet applications  
Licenses  
[unknown]

-----

Licenses of module/program 'python3-twisted-bin:amd64':

-----

Version  
17.9.0-2ubuntu0.1  
Description  
Event-based framework for internet applications  
Licenses  
[unknown]

-----

Licenses of module/program 'python3-update-manager':

-----

Version  
1:18.04.11.10  
Description  
python 3.x module for update-manager  
Licenses  
[GPL] [LGPL]

-----

Licenses of module/program 'python3-urllib3':

-----

Version  
1.22-1ubuntu0.18.04.1  
Description  
HTTP library with thread-safe connection pooling for Python3  
Licenses  
[Expat] [PSF-2]

-----

Licenses of module/program 'python3-yaml':

-----

Version  
3.12-1build2  
Description  
YAML parser and emitter for Python3  
Licenses  
[unknown]

-----

Licenses of module/program 'python3-zope.interface':

-----

Version  
4.3.2-1build2  
Description  
Interfaces for Python3  
Licenses  
[Zope-2.1]

-----

Licenses of module/program 'python3.6':

-----

Version  
3.6.9-1~18.04ubuntu1  
Description  
Interactive high-level object-oriented language (version 3.6  
Licenses  
[GPL-2]

-----

Licenses of module/program 'python3.6-minimal':

-----

Version  
3.6.9-1~18.04ubuntu1  
Description  
Minimal subset of the Python language (version 3.6)  
Licenses  
[GPL-2]

-----

Licenses of module/program 'quota':

-----

Version  
4.04-2ubuntu0.1  
Description  
disk quota management tools  
Licenses  
[GPL]

-----

Licenses of module/program 'rake':

-----

Version  
12.3.1-1ubuntu0.1  
Description  
ruby make-like utility  
Licenses  
[Expat]

-----

Licenses of module/program 're2c':

-----

Version  
1.0.1-1  
Description  
tool for generating fast C-based recognizers  
Licenses  
[public domain]

-----

Licenses of module/program 'readline-common':

-----

Version  
7.0-3  
Description  
GNU readline and history libraries, common files  
Licenses  
[GFDL] [GPL-3]

-----

Licenses of module/program 'rename':

-----

Version  
0.20-7  
Description  
Perl extension for renaming multiple files  
Licenses  
[Artistic] [Artistic or GPL-1+] [GPL-1+]

-----

Licenses of module/program 'resolvconf':

-----

Version  
1.79ubuntu10.18.04.3  
Description  
name server information handler  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'ri':

-----

Version  
1:2.5.1  
Description  
Ruby Interactive reference  
Licenses  
[RubyLicense]

-----

Licenses of module/program 'rpcbind':

-----

Version  
0.2.3-0.6  
Description  
converts RPC program numbers into universal addresses  
Licenses  
[GPL-3]

-----

Licenses of module/program 'rrdtool':

-----

Version  
1.7.0-1build1  
Description  
time-series data storage and display system (programs)  
Licenses  
[BSD-2-clause] [FSF] [GPL-2 GPL-2+ GPL-2+ with FLOSS exception] [LGPL-2.1+] [MIT plbasename public\_domain public-domain]

-----

Licenses of module/program 'rsync':

-----

Version  
3.1.2-2.1ubuntu1.1  
Description  
fast, versatile, remote (and local) file-copying tool  
Licenses  
[GPL-3]

-----

Licenses of module/program 'rsyslog':

-----

Version  
8.32.0-1ubuntu4  
Description  
reliable system and kernel logging daemon  
Licenses  
[Apache-2.0] [BSD-3-clause] [GPL-3.0+] [LGPL-3.0+]

-----

Licenses of module/program 'rsyslog-mysql':

-----

Version  
8.32.0-1ubuntu4  
Description  
MySQL output plugin for rsyslog  
Licenses  
[Apache-2.0] [BSD-3-clause] [GPL-3.0+] [LGPL-3.0+]

-----

Licenses of module/program 'ruby':

-----

Version  
1:2.5.1  
Description  
Interpreter of object-oriented scripting language Ruby (defa  
Licenses  
[RubyLicense]

-----

Licenses of module/program 'ruby-did-you-mean':

-----

Version  
1.2.0-2  
Description  
smart error messages for Ruby > 2.3  
Licenses  
[Expat]

-----

Licenses of module/program 'ruby-minitest':

-----

Version  
5.10.3-1  
Description  
Ruby test tools supporting TDD, BDD, mocking, and benchmarki  
Licenses  
[Expat]

-----

Licenses of module/program 'ruby-net-telnet':

-----

Version  
0.1.1-2  
Description  
telnet client library  
Licenses  
[Ruby]

-----

Licenses of module/program 'ruby-power-assert':

-----

Version  
0.3.0-1  
Description  
library showing values of variables and method calls in an e  
Licenses  
[BSD-2-clause] [BSD-2-clause or Ruby] [Ruby]

-----

Licenses of module/program 'ruby-test-unit':

-----

Version  
3.2.5-1  
Description  
unit testing framework for Ruby  
Licenses  
[BSD-2-clause] [BSD-2-clause or Ruby] [BSD-2-clause or Ruby, BSD-2-clause or Ruby or LGPL-2.1] [LGPL-2.1] [PSF] [Ruby]

-----

Licenses of module/program 'ruby2.5':

-----

Version  
2.5.1-1ubuntu1.6  
Description  
Interpreter of object-oriented scripting language Ruby  
Licenses  
[3C-BSD AllPermissions] [Artistic] [BSD-2-clause] [BSD-2-clause or Ruby] [BSD-3-clause] [CC0] [CC-BY-3.0-famfamfam] [Expat] [Expat or Ruby] [GPL-1+] [GPL-1+ or Artistic] [GPL-3+] PartialGplArtisticAndRuby Permissive PreserveNotice PublicDomain Ruby [SIL-1.1] Unicode zlib/libpng

-----

Licenses of module/program 'ruby2.5-doc':

-----

Version  
2.5.1-1ubuntu1.6  
Description  
Documentation for Ruby 2.5  
Licenses  
[3C-BSD AllPermissions] [Artistic] [BSD-2-clause] [BSD-2-clause or Ruby] [BSD-3-clause] [CC0] [CC-BY-3.0-famfamfam] [Expat] [Expat or Ruby] [GPL-1+] [GPL-1+ or Artistic] [GPL-3+] PartialGplArtisticAndRuby Permissive PreserveNotice PublicDomain Ruby [SIL-1.1] Unicode zlib/libpng

-----

Licenses of module/program 'rubygems-integration':

-----

Version  
1.11  
Description  
integration of Debian Ruby packages with Rubygems  
Licenses  
[Expat]

-----

Licenses of module/program 'run-one':

-----

Version  
1.17-0ubuntu1  
Description  
run just one instance of a command and its args at a time  
Licenses  
[GPL-3]

-----

Licenses of module/program 'sa-compile':

-----

Version  
3.4.2-0ubuntu0.18.04.4  
Description  
Tools for compiling SpamAssassin rules into C  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'samba-common':

-----

Version  
2:4.7.6+dfsg~ubuntu-0ubuntu2.1  
Description  
common files used by both the Samba server and client  
Licenses  
[BSD-3] [GPL-3] [GPL-3+] [LGPL-3+] MS-ADSL

-----

Licenses of module/program 'samba-common-bin':

-----

Version  
2:4.7.6+dfsg~ubuntu-0ubuntu2.1  
Description  
Samba common files used by both the server and the client  
Licenses  
[BSD-3] [GPL-3] [GPL-3+] [LGPL-3+] MS-ADSL

-----

Licenses of module/program 'samba-libs:amd64':

-----

Version  
2:4.7.6+dfsg~ubuntu-0ubuntu2.1  
Description  
Samba core libraries  
Licenses  
[BSD-3] [GPL-3] [GPL-3+] [LGPL-3+] MS-ADSL

-----

Licenses of module/program 'sasl2-bin':

-----

Version  
2.1.27~101-g0780600+dfsg-3ubun  
Description  
Cyrus SASL - administration programs for SASL users database  
Licenses  
[BSD-4-clause] [GPL-3+]

-----

Licenses of module/program 'screen':

-----

Version  
4.6.2-1ubuntu1  
Description  
terminal multiplexer with VT100/ANSI terminal emulation  
Licenses  
[GPL-3+]

-----

Licenses of module/program 'sed':

-----

Version  
4.4-2  
Description  
GNU stream editor for filtering/transforming text  
Licenses  
[GPL-3]

-----

Licenses of module/program 'sensible-utils':

-----

Version  
0.0.12  
Description  
Utilities for sensible alternative selection  
Licenses  
[All-permissive configure GPL-2+ installsh]

-----

Licenses of module/program 'sgml-base':

-----

Version  
1.29  
Description  
SGML infrastructure and SGML catalog file support  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'shared-mime-info':

-----

Version  
1.9-2  
Description  
FreeDesktop.org shared MIME database and spec  
Licenses  
[GPL]

-----

Licenses of module/program 'smartmontools':

-----

Version  
6.5+svn4324-1  
Description  
control and monitor storage systems using S.M.A.R.T.  
Licenses  
[GPL-2] [GPL-2+]

-----

Licenses of module/program 'smbclient':

-----

Version  
2:4.7.6+dfsg~ubuntu-0ubuntu2.1  
Description  
command-line SMB/CIFS clients for Unix  
Licenses  
[BSD-3] [GPL-3] [GPL-3+] [LGPL-3+] MS-ADSL

-----

Licenses of module/program 'snapd':

-----

Version  
2.42.1+18.04  
Description  
Daemon and tooling that enable snap packages  
Licenses  
[GPL-3]

-----



Licenses of module/program 'snmp':

-----

Version  
5.7.3+dfsg-1.8ubuntu3.3  
Description  
SNMP (Simple Network Management Protocol) applications  
Licenses  
[unknown]

-----

Licenses of module/program 'snmpd':

-----

Version  
5.7.3+dfsg-1.8ubuntu3.3  
Description  
SNMP (Simple Network Management Protocol) agents  
Licenses  
[unknown]

-----

Licenses of module/program 'socat':

-----

Version  
1.7.3.2-2ubuntu2  
Description  
multipurpose relay for bidirectional data transfer  
Licenses  
[GPL-2] [GPL-3]

-----

Licenses of module/program 'software-properties-common':

-----

Version  
0.96.24.32.12  
Description  
manage the repositories that you install software from (comm  
Licenses  
[GPL-2] [LGPL-2.1]

-----

Licenses of module/program 'sosreport':

-----

Version  
3.9-1ubuntu0.18.04.2  
Description  
Set of tools to gather troubleshooting data from a system  
Licenses  
[GPL-2] [GPL-2+]

-----

Licenses of module/program 'spamassassin':

-----

Version  
3.4.2-0ubuntu0.18.04.4  
Description  
Perl-based spam filter using text analysis  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'spamc':

-----

Version  
3.4.2-0ubuntu0.18.04.4  
Description  
Client for SpamAssassin spam filtering daemon  
Licenses  
[Apache-2.0]

-----

Licenses of module/program 'squashfs-tools':

-----

Version  
1:4.3-6ubuntu0.18.04.1  
Description  
Tool to create and append to squashfs filesystems  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'ssh-import-id':

-----

Version  
5.7-0ubuntu1.1  
Description  
securely retrieve an SSH public key and install it locally  
Licenses  
[GPL-3]

-----

Licenses of module/program 'ssl-cert':

-----

Version  
1.0.39  
Description  
simple debconf wrapper for OpenSSL  
Licenses  
[BSD-3-clause]

-----

Licenses of module/program 'strace':

-----

Version  
4.21-1ubuntu1  
Description  
System call tracer  
Licenses  
[unknown]

-----

Licenses of module/program 'sudo':

-----

Version  
1.8.21p2-3ubuntu1.2  
Description  
Provide limited super user privileges to specific users  
Licenses  
[unknown]

-----

Licenses of module/program 'sysstat':

-----

Version  
11.6.1-1ubuntu0.1  
Description  
system performance tools for Linux  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'systemd':

-----

Version  
237-3ubuntu10.39  
Description  
system and service manager  
Licenses  
[CC0-1.0] [Expat] [GPL-2] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'systemd-sysv':

-----

Version  
237-3ubuntu10.39  
Description  
system and service manager - SysV links  
Licenses  
[CC0-1.0] [Expat] [GPL-2] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'sysvinit-utils':

-----

Version  
2.88dsf-59.10ubuntu1  
Description  
System-V-like utilities  
Licenses  
[GPL-2]

-----

Licenses of module/program 'tar':

-----

Version  
1.29b-2ubuntu0.1  
Description  
GNU version of the tar archiving utility  
Licenses  
[GPL-2] [GPL-3]

-----

Licenses of module/program 'tasksel':

-----

Version  
3.34ubuntu11  
Description  
tool for selecting tasks for installation on Debian systems  
Licenses  
[GPL-2]

-----

Licenses of module/program 'tasksel-data':

-----

Version  
3.34ubuntu11  
Description  
official tasks used for installation of Debian systems  
Licenses  
[GPL-2]

-----

Licenses of module/program 'tcpdump':

-----

Version  
4.9.3-0ubuntu0.18.04.1  
Description  
command-line network traffic analyzer  
Licenses  
[4-clause BSD license BSD license]

-----

Licenses of module/program 'telnet':

-----

Version  
0.17-41  
Description  
basic telnet client  
Licenses  
[unknown]

-----

Licenses of module/program 'time':

-----

Version  
1.7-25.1build1  
Description  
GNU time program for measuring CPU resource usage  
Licenses  
[freely redistributable GPL-2+]

-----

Licenses of module/program 'tmux':

-----

Version  
2.6-3ubuntu0.2  
Description  
terminal multiplexer  
Licenses  
[BSD-2] BSD-2. [BSD-3 bsd-poll.c bsd-poll.h]

-----

Licenses of module/program 'traceroute':

-----

Version  
1:2.1.0-2  
Description  
Traces the route taken by packets over an IPv4/IPv6 network  
Licenses  
[GPL-2+] [LGPL-2.1+]

-----

Licenses of module/program 'tzdata':

-----

Version  
2019c-0ubuntu0.18.04  
Description  
time zone and daylight-saving time data  
Licenses  
[public domain]

-----

Licenses of module/program 'ubuntu-advantage-tools':

-----

Version  
17  
Description  
management tools for Ubuntu Advantage  
Licenses  
[GPL-3.0]

-----

Licenses of module/program 'ubuntu-cloudimage-keyring':

-----

Version  
2018.09.18.1~18.04.0  
Description  
dummy transitional package for GnuPG keys of cloudimage keyr  
Licenses  
[GPL]

-----

Licenses of module/program 'ubuntu-keyring':

-----

Version  
2018.09.18.1~18.04.0  
Description  
GnuPG keys of the Ubuntu archive  
Licenses  
[GPL]

-----

Licenses of module/program 'ubuntu-minimal':

-----

Version  
1.417.4  
Description  
Minimal core of Ubuntu  
Licenses  
[GPL-2]

-----

Licenses of module/program 'ubuntu-release-upgrader-core':

-----

Version  
1:18.04.37  
Description  
manage release upgrades  
Licenses  
[Expat] [GPL-2+]

-----

Licenses of module/program 'ubuntu-server':

-----

Version  
1.417.4  
Description  
The Ubuntu Server system  
Licenses  
[GPL-2]

-----

Licenses of module/program 'ubuntu-standard':

-----

Version  
1.417.4  
Description  
The Ubuntu standard system  
Licenses  
[GPL-2]

-----

Licenses of module/program 'ucf':

-----

Version  
3.0038  
Description  
Update Configuration File(s): preserve user changes to confi  
Licenses  
[GPL-2]

-----

Licenses of module/program 'udev':

-----

Version  
237-3ubuntu10.39  
Description  
/dev/ and hotplug management daemon  
Licenses  
[CC0-1.0] [Expat] [GPL-2] [GPL-2+] [LGPL-2.1+ public-domain]

-----

Licenses of module/program 'ufw':

-----

Version  
0.36-0ubuntu0.18.04.1  
Description  
program for managing a Netfilter firewall  
Licenses  
[BSD-3-clause] [GPL-3]

-----

Licenses of module/program 'uidmap':

-----

Version  
1:4.5-1ubuntu2  
Description  
programs to help use subuids  
Licenses  
[GPL-2]

-----

Licenses of module/program 'unattended-upgrades':

-----

Version  
1.1ubuntu1.18.04.14  
Description  
automatic installation of security upgrades  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'unzip':

-----

Version  
6.0-21ubuntu1  
Description  
De-archiver for .zip files  
Licenses  
[unknown]

-----

Licenses of module/program 'update-manager-core':

-----

Version  
1:18.04.11.10  
Description  
manage release upgrades  
Licenses  
[GPL] [LGPL]

-----

Licenses of module/program 'update-notifier-common':

-----

Version  
3.192.1.7  
Description  
Files shared between update-notifier and other packages  
Licenses  
[unknown]

-----

Licenses of module/program 'ureadahead':

-----

Version  
0.100.0-21  
Description  
Read required files in advance  
Licenses  
[GPL-2]

-----

Licenses of module/program 'usbutils':

-----

Version  
1:007-4build1  
Description  
Linux USB utilities  
Licenses  
[GPL-2]

-----

Licenses of module/program 'usermin':

-----

Version  
1.791  
Description  
web-based user account administration interface for Unix sys  
Licenses  
[unknown]

-----

Licenses of module/program 'util-linux':

-----

Version  
2.31.1-0.4ubuntu3.6  
Description  
miscellaneous system utilities  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----

Licenses of module/program 'uuid-runtime':

-----

Version  
2.31.1-0.4ubuntu3.6  
Description  
runtime components for the Universally Unique ID library  
Licenses  
[BSD-2-clause] [BSD-3-clause] [BSD-4-clause] [GPL-2] [GPL-2+] [GPL-3+] [LGPL] [LGPL-2+] [LGPL-2.1+] [LGPL-3+] [MIT public-domain]

-----

Licenses of module/program 'vim':

-----

Version  
2:8.0.1453-1ubuntu1.3  
Description  
Vi IMproved - enhanced vi editor  
Licenses  
[Apache] [Apache or Expat] [Artistic-1] [BSD-2-clause] [BSD-3-clause] Compaq [Expat] [Expat or GPL-2] [Expat or Vim] [GPL-1+] [GPL-1+ or Artistic-1] [GPL-2] [GPL-2+] [OPL-1+] public-domain SRA UC [Vim Vim-Regexp] [X11 XPM]

-----

Licenses of module/program 'vim-common':

-----

Version  
2:8.0.1453-1ubuntu1.3  
Description  
Vi IMproved - Common files  
Licenses  
[Apache] [Apache or Expat] [Artistic-1] [BSD-2-clause] [BSD-3-clause] Compaq [Expat] [Expat or GPL-2] [Expat or Vim] [GPL-1+] [GPL-1+ or Artistic-1] [GPL-2] [GPL-2+] [OPL-1+] public-domain SRA UC [Vim Vim-Regexp] [X11 XPM]

-----

Licenses of module/program 'vim-runtime':

-----

Version  
2:8.0.1453-1ubuntu1.3  
Description  
Vi IMproved - Runtime files  
Licenses  
[Apache] [Apache or Expat] [Artistic-1] [BSD-2-clause] [BSD-3-clause] Compaq [Expat] [Expat or GPL-2] [Expat or Vim] [GPL-1+] [GPL-1+ or Artistic-1] [GPL-2] [GPL-2+] [OPL-1+] public-domain SRA UC [Vim Vim-Regexp] [X11 XPM]



-----

Licenses of module/program 'vim-tiny':

-----

Version

2:8.0.1453-1ubuntu1.3

Description

Vi IMproved - enhanced vi editor - compact version

Licenses

[Apache] [Apache or Expat] [Artistic-1] [BSD-2-clause] [BSD-3-clause] Compaq [Expat] [Expat or GPL-2] [Expat or Vim] [GPL-1+] [GPL-1+ or Artistic-1] [GPL-2] [GPL-2+] [OPL-1+] public-domain SRA UC [Vim Vim-Regexp] [X11 XPM]

-----

Licenses of module/program 'virtualmin-config':

-----

Version

6.0.24

Description

Configure a system for use by Virtualmin

Licenses

[GPL-3]

-----

Licenses of module/program 'virtualmin-core':

-----

Version

6.0.1

Description

Metapackage for core Virtualmin dependencies.

Licenses

[unknown]

-----

Licenses of module/program 'virtualmin-lamp-stack':

-----

Version

6.0.9+ubuntu-16.04

Description

Metapackage for Virtualmin LAMP Stack.

Licenses

[unknown]

-----

Licenses of module/program 'vlan':

-----

Version

1.9-3.2ubuntu6

Description

user mode programs to enable VLANs on your ethernet devices

Licenses

[GPL]

-----

Licenses of module/program 'webalizer':

-----

Version

2.23.08-3

Description

web server log analysis program

Licenses

[GPL-2+]

-----

Licenses of module/program 'webmin':

-----

Version  
1.941  
Description  
web-based administration interface for Unix systems  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-jailkit':

-----

Version  
0.1  
Description  
Webmin module for 'Jailkit Jail Manager'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-php-pear':

-----

Version  
1.5  
Description  
Webmin module for 'PHP Pear Modules'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-ruby-gems':

-----

Version  
1.4  
Description  
Webmin module for 'Ruby GEMS'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtual-server':

-----

Version  
6.06.gpl-2  
Description  
Webmin module for 'Virtualmin Virtual Servers'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-awstats':

-----

Version  
5.6-2  
Description  
Webmin module for 'AWstats Reporting'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-dav':

-----

Version  
3.8  
Description  
Webmin module for 'Virtualmin DAV'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-git':

-----

Version  
1.8  
Description  
Webmin module for 'Virtualmin Git Repositories'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-htpasswd':

-----

Version  
2.6  
Description  
Webmin module for 'Virtualmin Protected Directories'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-init':

-----

Version  
2.5  
Description  
Webmin module for 'Virtualmin Bootup Actions'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-nginx':

-----

Version  
2.5  
Description  
Webmin module for 'Nginx Webserver'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-nginx-ssl':

-----

Version  
1.6  
Description  
Webmin module for 'Nginx Webserver SSL'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-registrar':

-----

Version  
2.5  
Description  
Webmin module for 'Virtualmin Domain Registration'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-slavedns':

-----

Version  
1.8  
Description  
Webmin module for 'Virtualmin Slave DNS'  
Licenses  
[unknown]

-----

Licenses of module/program 'webmin-virtualmin-sqlite':

-----

Version  
1.5  
Description  
Webmin module for 'Virtualmin SQLite Databases'  
Licenses  
[unknown]

-----

Licenses of module/program 'wget':

-----

Version  
1.19.4-1ubuntu2.2  
Description  
retrieves files from the web  
Licenses  
[GFDL-1.2] [GPL-3]

-----

Licenses of module/program 'whiptail':

-----

Version  
0.52.20-1ubuntu1  
Description  
Displays user-friendly dialog boxes from shell scripts  
Licenses  
[LGPL-2]

-----

Licenses of module/program 'whois':

-----

Version  
5.3.0  
Description  
intelligent WHOIS client  
Licenses  
[GPL-2]

-----

Licenses of module/program 'wireless-regdb':

-----

Version  
2018.05.09-0ubuntu1~18.04.1  
Description  
wireless regulatory database  
Licenses  
[ISC]

-----

Licenses of module/program 'x11-common':

-----

Version  
1:7.7+19ubuntu7.1  
Description  
X Window System (X.Org) infrastructure  
Licenses  
[GPL]

-----

Licenses of module/program 'x11-utils':

-----

Version  
7.7+3build1  
Description  
X11 utilities  
Licenses  
[unknown]

-----

Licenses of module/program 'x11proto-core-dev':

-----

Version  
2018.4-4  
Description  
transitional dummy package  
Licenses  
[MIT] [SGI]

-----

Licenses of module/program 'x11proto-dev':

-----

Version  
2018.4-4  
Description  
X11 extension protocols and auxiliary headers  
Licenses  
[MIT] [SGI]

-----

Licenses of module/program 'xauth':

-----

Version  
1:1.0.10-1  
Description  
X authentication utility  
Licenses  
[unknown]

-----

Licenses of module/program 'xdelta3':

-----

Version  
3.0.11-dfsg-1ubuntu1  
Description  
Diff utility which works with binary files  
Licenses  
[GPL]

-----

Licenses of module/program 'xdg-user-dirs':

-----

Version  
0.17-1ubuntu1  
Description  
tool to manage well known user directories  
Licenses  
[GPL-2]

-----

Licenses of module/program 'xfsprogs':

-----

Version  
4.9.0+nmu1ubuntu2  
Description  
Utilities for managing the XFS filesystem  
Licenses  
[GPL] [LGPL-2.1]

-----

Licenses of module/program 'xkb-data':

-----

Version  
2.23.1-1ubuntu1.18.04.1  
Description  
X Keyboard Extension (XKB) configuration data  
Licenses  
[unknown]

-----

Licenses of module/program 'xml-core':

-----

Version  
0.18  
Description  
XML infrastructure and XML catalog file support  
Licenses  
[GPL-2+]

-----

Licenses of module/program 'xorg-sgml-doctools':

-----

Version  
1:1.11-1  
Description  
Common tools for building X.Org SGML documentation  
Licenses  
[unknown]

-----

Licenses of module/program 'xtrans-dev':

-----

Version  
1.3.5-1  
Description  
X transport library (development files)  
Licenses  
[unknown]

-----

Licenses of module/program 'xxd':

-----

Version  
2:8.0.1453-1ubuntu1.3  
Description  
tool to make (or reverse) a hex dump  
Licenses  
[Apache] [Apache or Expat] [Artistic-1] [BSD-2-clause] [BSD-3-clause] Compaq [Expat] [Expat or GPL-2] [Expat or Vim] [GPL-1+] [GPL-1+ or Artistic-1] [GPL-2] [GPL-2+] [OPL-1+] public-domain SRA UC [Vim Vim-Regexp] [X11] XPM

-----

Licenses of module/program 'xz-utils':

-----

Version  
5.2.2-1.3  
Description  
XZ-format compression utilities  
Licenses  
Autoconf config-h [GPL-2] [GPL-2+] [LGPL-2.1+] noderivs none PD PD-debian permissive-fsf permissive-nowarranty probably-PD

-----

Licenses of module/program 'zerofree':

-----

Version  
1.0.4-1  
Description  
zero free blocks from ext2, ext3 and ext4 file-systems  
Licenses  
[GPL-2]

-----

Licenses of module/program 'zip':

-----

Version  
3.0-11build1  
Description  
Archiver for .zip files  
Licenses  
[unknown]

-----

Licenses of module/program 'zlib1g:amd64':

-----

Version  
1:1.2.11.dfsg-0ubuntu2  
Description  
compression library - runtime  
Licenses  
[unknown]

-----

Licenses of module/program 'zlib1g-dev:amd64':

-----

Version  
1:1.2.11.dfsg-0ubuntu2  
Description  
compression library - development  
Licenses  
[unknown]

-----

From here to following lines licenses are exposed

-----

[Apache-2.0]

-----

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent



to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of

this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

-----  
[Artistic]  
-----

☐☐☐ The "Artistic License"

**□□□□Preamble**

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

**Definitions:**

□"Package" refers to the collection of files distributed by the  
□Copyright Holder, and derivatives of that collection of files  
□created through textual modification.

□"Standard Version" refers to such a Package if it has not been  
□modified, or has been modified in accordance with the wishes  
□of the Copyright Holder as specified below.

□"Copyright Holder" is whoever is named in the copyright or  
□copyrights for the package.

□"You" is you, if you're thinking about copying or distributing  
□this Package.

□"Reasonable copying fee" is whatever you can justify on the  
□basis of media cost, duplication charges, time of people involved,  
□and so on. (You will not be required to justify it to the  
□Copyright Holder, but only to the computing community at large  
□as a market that must bear the fee.)

□"Freely Available" means that no fee is charged for the item  
□itself, though there may be fees involved in handling the item.  
□It also means that recipients of the item may redistribute it  
□under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

□□□□The End

-----  
[BSD]  
-----

Copyright (c) The Regents of the University of California.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
[CC0-1.0]  
-----

Creative Commons Legal Code

CC0 1.0 Universal

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

- i. the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
- ii. moral rights retained by the original author(s) and/or performer(s);
- iii. publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
- iv. rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
- v. rights protecting the extraction, dissemination, use and reuse of data in a Work;
- vi. database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
- vii. other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or

treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

#### 4. Limitations and Disclaimers.

- a. No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.
- b. Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.
- c. Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.
- d. Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

-----  
[GFDL]  
-----

GNU Free Documentation License  
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.  
<<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### 0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

## 1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.



The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

## 2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

## 3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.



#### 4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

- A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
- B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
- C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
- D. Preserve all the copyright notices of the Document.
- E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
- F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
- G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
- H. Include an unaltered copy of this License.
- I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.
- J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.
- K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.
- L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.
- M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.
- N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.
- O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit

permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

#### 5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

#### 6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

#### 7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

#### 8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include

the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

## 9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

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

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

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

## 10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

## 11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.  
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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

-----  
[GFDL-1.2]  
-----

GNU Free Documentation License  
Version 1.2, November 2002

Copyright (C) 2000,2001,2002 Free Software Foundation, Inc.  
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

## 0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

## 1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

## 2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

## 3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

## 4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

- A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
- B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified

- Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
- C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
  - D. Preserve all the copyright notices of the Document.
  - E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
  - F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
  - G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
  - H. Include an unaltered copy of this License.
  - I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.
  - J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.
  - K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.
  - L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.
  - M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.
  - N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.
  - O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

## 5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.



The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

#### 6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

#### 7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

#### 8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

#### 9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided for under this License. Any other attempt to copy, modify, sublicense or distribute the Document is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this



License will not have their licenses terminated so long as such parties remain in full compliance.

#### 10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation.

#### ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.  
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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

-----  
[GFDL-1.3]  
-----

GNU Free Documentation License  
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.  
<<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### 0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

## 1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title,

preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

## 2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

## 3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

## 4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under

the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

- A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
- B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
- C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
- D. Preserve all the copyright notices of the Document.
- E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
- F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
- G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
- H. Include an unaltered copy of this License.
- I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.
- J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.
- K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.
- L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.
- M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.
- N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.
- O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License

give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

#### 5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

#### 6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

#### 7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

#### 8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice

or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

## 9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

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

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

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

## 10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

## 11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or

in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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

-----  
[GPL]  
-----

GNU GENERAL PUBLIC LICENSE  
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

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.

### 1. Source Code.

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



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

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

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

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.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

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.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

## 4. Conveying Verbatim Copies.

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

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.

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

## 7. Additional Terms.

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

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

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

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

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

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

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

#### 8. Termination.

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

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

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

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently

reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

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

#### 10. Automatic Licensing of Downstream Recipients.

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

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

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

#### 11. Patents.

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

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

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

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

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

in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

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

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

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

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

#### 14. Revised Versions of this License.

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

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

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

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

15. Disclaimer of Warranty.

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

16. Limitation of Liability.

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

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

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

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

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

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, see <http://www.gnu.org/licenses/>.

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

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

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

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

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



<<http://www.gnu.org/licenses/>>.

The GNU 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. But first, please read <<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

-----  
[GPL-1]  
-----

GNU GENERAL PUBLIC LICENSE  
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.  
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, 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 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 a 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 tell them 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.

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

GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".



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 General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual 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 General Public License.

d) 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.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 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 Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based

on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

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

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

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

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

#### END OF TERMS AND CONDITIONS

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

If you develop a new program, and you want it to be of the greatest possible use to 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., 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) 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-2]  
-----

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) 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 this service 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 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.

GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

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.

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 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:

- 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.

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.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to

this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

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.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program 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.

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

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

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

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

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

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

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

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

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., 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) 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 Lesser General Public License instead of this License.

-----  
[GPL-3]  
-----

GNU GENERAL PUBLIC LICENSE  
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.



## Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

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.

#### 1. Source Code.

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

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

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

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

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.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

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.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

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

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.

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

#### 7. Additional Terms.

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

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

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

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

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

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

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

#### 8. Termination.

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

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

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

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

#### 9. Acceptance Not Required for Having Copies.

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

#### 10. Automatic Licensing of Downstream Recipients.

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

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

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

#### 11. Patents.

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

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

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

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

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

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

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

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have

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

#### 14. Revised Versions of this License.

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

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

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

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

#### 15. Disclaimer of Warranty.

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

#### 16. Limitation of Liability.

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

#### 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

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

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

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



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

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

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, see <<http://www.gnu.org/licenses/>>.

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

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

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

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

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

The GNU 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. But first, please read <<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

-----  
[LGPL]  
-----

## GNU LESSER GENERAL PUBLIC LICENSE Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

### 0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"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.

3. Object Code Incorporating Material from Library Header Files.

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.

4. Combined Works.

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.)

#### 5. Combined Libraries.

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.

#### 6. Revised Versions of the GNU Lesser General Public License.

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

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.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

-----  
[LGPL-2]

-----  
GNU LIBRARY GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[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 Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any

other libraries whose authors decide to use it. You can use it for your libraries, 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 this service 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 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.

GNU LIBRARY GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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.

8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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

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

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

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.

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

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.



14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

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

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

#### END OF TERMS AND CONDITIONS

#### 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., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

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

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

That's all there is to it!



-----  
[LGPL-2.1]  
-----

GNU LESSER GENERAL PUBLIC LICENSE  
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

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

Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

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 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.

#### GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent

license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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

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

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

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.

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

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

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

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

#### 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 Lesser General Public  
License as published by the Free Software Foundation; either  
version 2.1 of the License, or (at your option) any later version.
```

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

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

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

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

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

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

That's all there is to it!

```
-----  
[LGPL-3]  
-----
```

```
GNU LESSER GENERAL PUBLIC LICENSE  
Version 3, 29 June 2007
```

```
Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.
```

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

#### 0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"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.

3. Object Code Incorporating Material from Library Header Files.

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.

4. Combined Works.

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.)

#### 5. Combined Libraries.

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.

#### 6. Revised Versions of the GNU Lesser General Public License.

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

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.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

-----  
[MPL-1.1]  
-----

MOZILLA PUBLIC LICENSE  
Version 1.1

-----

#### 1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the

combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. Source Code License.

### 2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the

Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

## 2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

## 3. Distribution Obligations.

### 3.1. Application of License.

The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

### 3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

### 3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that

the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

#### 3.4. Intellectual Property Matters

##### (a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

##### (b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

##### (c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

#### 3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

#### 3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

### 3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

### 4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

### 5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

### 6. Versions of the License.

#### 6.1. New Versions.

Netscape Communications Corporation ("Netscape") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

#### 6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other than Netscape has the right to modify the terms applicable to Covered Code created under this License.

#### 6.3. Derivative Works.

If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must (a) rename Your license so that the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

### 7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

### 8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer

or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

#### 9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

#### 10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

#### 11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern

District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the MPL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

``The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <https://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is \_\_\_\_\_.

The Initial Developer of the Original Code is \_\_\_\_\_.  
Portions created by \_\_\_\_\_ are Copyright (C) \_\_\_\_\_  
\_\_\_\_\_. All Rights Reserved.

Contributor(s): \_\_\_\_\_.

Alternatively, the contents of this file may be used under the terms of the \_\_\_\_\_ license (the "[ ] License"), in which case the provisions of [ ] License are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of the [ ] License and not to allow others to use your version of this file under the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [ ] License. If you do not delete the provisions above, a recipient may use your version of this file under either the MPL or the [ ] License."

[NOTE: The text of this Exhibit A may differ slightly from the text of the notices in the Source Code files of the Original Code. You should use the text of this Exhibit A rather than the text found in the Original Code Source Code for Your Modifications.]

-----  
[MPL-2.0]  
-----

Mozilla Public License Version 2.0  
=====

1. Definitions  
-----

- 1.1. "Contributor"  
means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.
- 1.2. "Contributor Version"  
means the combination of the Contributions of others (if any) used

by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"

means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

-----

2.1. Grants



Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- (b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

## 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

## 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- (a) for any code that a Contributor has removed from Covered Software; or
- (b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- (c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

## 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

## 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

## 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

## 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

## 3. Responsibilities

### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- (a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- (b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

## 4. Inability to Comply Due to Statute or Regulation

-----

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

## 5. Termination

-----

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
*****
*                                     *
* 6. Disclaimer of Warranty           *
* -----                           *
*                                     *
* Covered Software is provided under this License on an "as is" *
* basis, without warranty of any kind, either expressed, implied, or *
* statutory, including, without limitation, warranties that the *
* Covered Software is free of defects, merchantable, fit for a *
* particular purpose or non-infringing. The entire risk as to the *
* quality and performance of the Covered Software is with You. *
* Should any Covered Software prove defective in any respect, You *
* (not any Contributor) assume the cost of any necessary servicing, *
* repair, or correction. This disclaimer of warranty constitutes an *
* essential part of this License. No use of any Covered Software is *
* authorized under this License except under this disclaimer. *
*                                     *
*****
```

```
*****
*                                     *
* 7. Limitation of Liability         *
* -----                           *
*                                     *
* Under no circumstances and under no legal theory, whether tort *
* (including negligence), contract, or otherwise, shall any *
* Contributor, or anyone who distributes Covered Software as *
* permitted above, be liable to You for any direct, indirect, *
* special, incidental, or consequential damages of any character *
* including, without limitation, damages for lost profits, loss of *
* goodwill, work stoppage, computer failure or malfunction, or any *
* and all other commercial damages or losses, even if such party *
* shall have been informed of the possibility of such damages. This *
* limitation of liability shall not apply to liability for death or *
* personal injury resulting from such party's negligence to the *
* extent applicable law prohibits such limitation. Some *
* jurisdictions do not allow the exclusion or limitation of *
* incidental or consequential damages, so this exclusion and *
* limitation may not apply to You. *
*                                     *
*****
```

## 8. Litigation

-----

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. Miscellaneous

-----

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

-----

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

#### 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

#### 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

#### 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

#### Exhibit A - Source Code Form License Notice

-----

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

#### Exhibit B - "Incompatible With Secondary Licenses" Notice

-----

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

-----  
[AFL-2.1]  
-----

#### The Academic Free License v.2.1

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original Work:  
Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license to do the following:

- a) to reproduce the Original Work in copies;
- b) to prepare derivative works ("Derivative Works") based upon the Original Work;
- c) to distribute copies of the Original Work and Derivative Works to the public;
- d) to perform the Original Work publicly; and
- e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of Licensor even if such marks are included in the Original Work. Nothing in this License shall be interpreted to prohibit Licensor from licensing under different terms from this License any Original Work

that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative Works that You create, all copyright, patent or trademark notices from the Source Code of the Original Work, as well as any notices of licensing and any descriptive text identified therein as an "Attribution Notice." You must cause the Source Code for any Derivative Works that You create to carry a prominent Attribution Notice reasonably calculated to inform recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that the copyright in and to the Original Work and the patent rights granted herein by Licensor are owned by the Licensor or are sublicensed to You under the terms of this License with the permission of the contributor(s) of those copyrights and patent rights. Except as expressly stated in the immediately preceding sentence, the Original Work is provided under this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or implied, including, without limitation, the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential part of this License. No license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal theory, whether in tort (including negligence), contract, or otherwise, shall the Licensor be liable to any person for any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or the use of the Original Work including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses. This limitation of liability shall not apply to liability for death or personal injury resulting from Licensor's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original Work or a Derivative Work, You must make a reasonable effort under the circumstances to obtain the express assent of recipients to the terms of this License. Nothing else but this License (or another written agreement between Licensor and You) grants You permission to create Derivative Works based upon the Original Work or to exercise any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights granted to You in Section 1 herein, You indicate Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action, including a cross-claim or counterclaim, against Licensor or any licensee alleging that the Original Work infringes a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of the Original Work with other software or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. Â§ 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved.

Permission is hereby granted to copy and distribute this license without modification. This license may not be modified without the express written permission of its copyright owner.

-----  
[AGPL-3]  
-----

#### GNU AFFERO GENERAL PUBLIC LICENSE

Version 3, 19 November 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<https://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The GNU Affero General Public License is a free, copyleft license for software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are 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.

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.

Developers that use our General Public Licenses protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License which gives you legal permission to copy, distribute and/or modify the software.

A secondary benefit of defending all users' freedom is that improvements made in alternate versions of the program, if they receive widespread use, become available for other developers to incorporate. Many developers of free software are heartened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The GNU General Public License permits making a modified version and letting the public access it on a server without ever releasing its source code to the public.

The GNU Affero General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version running there to the users of that server. Therefore, public use of a modified version, on a publicly accessible server, gives the public access to the source code of the modified version.

An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license,

not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license. 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 Affero 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.

### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work. A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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

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

subprograms and other parts of the work.

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.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

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.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

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

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.

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

#### 7. Additional Terms.

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

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

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

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

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

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

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

#### 8. Termination.

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

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

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

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

#### 9. Automatic Acceptance Not Required for Having Copies.

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

#### 10. Automatic Licensing of Downstream Recipients.

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

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

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

#### 11. Patents.

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

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

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

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

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent

license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

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

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

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the Program, your modified version must prominently offer all users interacting with it remotely through a computer network (if your version supports such interaction) an opportunity to receive the Corresponding Source of your version by providing access to the Corresponding Source from a network server at no charge, through some standard or customary means of facilitating copying of software. This Corresponding Source shall include the Corresponding Source for any work covered by version 3 of the GNU General Public License that is incorporated pursuant to the following paragraph.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the work with which it is combined will remain governed by version 3 of the GNU General Public License.

#### 14. Revised Versions of this License.

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

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

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

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

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE



COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

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

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

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

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

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

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero 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 Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program. If not, see <<https://www.gnu.org/licenses/>>.

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

If your software can interact with users remotely through a computer network, you should also make sure that it provides a way for users to get its source. For example, if your program is a web application, its interface could display a "Source" link that leads users to an archive of the code. There are many ways you could offer source, and different solutions will be better for different programs; see section 13 for the specific requirements.

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

-----  
[Artistic-2.0]  
-----

The Artistic License 2.0

Copyright (c) 2000-2006, The Perl Foundation.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

This license establishes the terms under which a given free software Package may be copied, modified, distributed, and/or redistributed. The intent is that the Copyright Holder maintains some artistic control over the development of that Package while still keeping the Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this license directly with the Copyright Holder of a given Package. If the terms of this license do not permit the full use that you propose to make of the Package, you should contact the Copyright Holder and seek a different licensing arrangement.

Definitions

"Copyright Holder" means the individual(s) or organization(s) named in the copyright notice for the entire Package.

"Contributor" means any party that has contributed code or other material to the Package, in accordance with the Copyright Holder's procedures.

"You" and "your" means any person who would like to copy, distribute, or modify the Package.

"Package" means the collection of files distributed by the Copyright Holder, and derivatives of that collection and/or of those files. A given Package may consist of either the Standard Version, or a Modified Version.

"Distribute" means providing a copy of the Package or making it accessible to anyone else, or in the case of a company or organization, to others outside of your company or organization.

"Distributor Fee" means any fee that you charge for Distributing this Package or providing support for this Package to another party. It does not mean licensing fees.

"Standard Version" refers to the Package if it has not been modified, or has been modified only in ways explicitly requested by the Copyright Holder.

"Modified Version" means the Package, if it has been changed, and such changes were not explicitly requested by the Copyright Holder.

"Original License" means this Artistic License as Distributed with the Standard Version of the Package, in its current version or as it may be modified by The Perl Foundation in the future.

"Source" form means the source code, documentation source, and configuration files for the Package.

"Compiled" form means the compiled bytecode, object code, binary, or any other form resulting from mechanical transformation or translation of the Source form.

Permission for Use and Modification Without Distribution

(1) You are permitted to use the Standard Version and create and use Modified Versions for any purpose without restriction, provided that you do not Distribute the Modified Version.

Permissions for Redistribution of the Standard Version

(2) You may Distribute verbatim copies of the Source form of the Standard Version of this Package in any medium without restriction, either gratis or for a Distributor Fee, provided that you duplicate all of the original copyright notices and associated disclaimers. At your discretion, such verbatim copies may or may not include a Compiled form of the Package.

(3) You may apply any bug fixes, portability changes, and other modifications made available from the Copyright Holder. The resulting Package will still be considered the Standard Version, and as such will be subject to the Original License.

Distribution of Modified Versions of the Package as Source

(4) You may Distribute your Modified Version as Source (either gratis or for a Distributor Fee, and with or without a Compiled form of the Modified Version) provided that you clearly document how it differs from the Standard Version, including, but not limited to, documenting any non-standard

features, executables, or modules, and provided that you do at least ONE of the following:

(a) You may make the Modified Version available to the Copyright Holder of the Standard Version, under the Original License, so that the Copyright Holder may include your modifications in the Standard Version.

(b) You may ensure that installation of your Modified Version does not prevent the user installing or running the Standard Version. In addition, the Modified Version must bear a name that is different from the name of the Standard Version.

(c) You may allow anyone who receives a copy of the Modified Version to make the Source form of the Modified Version available to others under

(i) the Original License or

(ii) a license that permits the licensee to freely copy, modify and redistribute the Modified Version using the same licensing terms that apply to the copy that the licensee received, and requires that the Source form of the Modified Version, and of any works derived from it, be made freely available in that license fees are prohibited but Distributor Fees are allowed.

Distribution of Compiled Forms of the Standard Version or Modified Versions without the Source

(5) You may Distribute Compiled forms of the Standard Version without the Source, provided that you include complete instructions on how to get the Source of the Standard Version. Such instructions must be valid at the time of your distribution. If these instructions, at any time while you are carrying out such distribution, become invalid, you must provide new instructions on demand or cease further distribution. If you provide valid instructions or cease distribution within thirty days after you become aware that the instructions are invalid, then you do not forfeit any of your rights under this license.

(6) You may Distribute a Modified Version in Compiled form without the Source, provided that you comply with Section 4 with respect to the Source of the Modified Version.

Aggregating or Linking the Package

(7) You may aggregate the Package (either the Standard Version or Modified Version) with other packages and Distribute the resulting aggregation provided that you do not charge a licensing fee for the Package. Distributor Fees are permitted, and licensing fees for other components in the aggregation are permitted. The terms of this license apply to the use and Distribution of the Standard or Modified Versions as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with other works, to embed the Package in a larger work of your own, or to build stand-alone binary or bytecode versions of applications that include the Package, and Distribute the result without restriction, provided the result does not expose a direct interface to the Package.

Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that merely extend or make use of the Package, do not, by themselves, cause the Package to be a Modified Version. In addition, such works are not considered parts of the Package itself, and are not subject to the terms of this license.

General Provisions

(10) Any use, modification, and distribution of the Standard or Modified Versions is governed by this Artistic License. By using, modifying or distributing the Package, you accept this license. Do not use, modify, or distribute the Package, if you do not accept this license.

(11) If your Modified Version has been derived from a Modified Version made by someone other than you, you are nevertheless required to ensure that your Modified Version complies with the requirements of this license.

(12) This license does not grant you the right to use any trademark, service mark, tradename, or logo of the Copyright Holder.

(13) This license includes the non-exclusive, worldwide, free-of-charge patent license to make, have made, use, offer to sell, sell, import and otherwise transfer the Package with respect to any patent claims licensable by the Copyright Holder that are necessarily infringed by the Package. If you institute patent litigation (including a cross-claim or counterclaim) against any party alleging that the Package constitutes direct or contributory patent infringement, then this Artistic License to you shall terminate on the date that such litigation is filed.

(14) Disclaimer of Warranty:

THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
[Beerware]  
-----

"THE BEER-WARE LICENSE" (Revision 42):

<phk@FreeBSD.ORG> wrote this file. As long as you retain this notice you can do whatever you want with this stuff. If we meet some day, and you think this stuff is worth it, you can buy me a beer in return Poul-Henning Kamp

-----  
[Boost-1.0]  
-----

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----  
[BSD-1]  
-----

Copyright (c) <year> <owner> All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistribution of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

THIS SOFTWARE IS PROVIDED BY Berkeley Software Design, Inc. "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL Berkeley Software Design, Inc. BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
[BSD-2]  
-----

Copyright (c) <year> <owner>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistribution of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
[BSD-3]  
-----

Copyright (c) <year> <owner>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistribution of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
[BSD-4]  
-----

Copyright (c) <year> <owner>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistribution of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by the organization.

4. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDER "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
[BSL]  
-----

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES

OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----  
[CC-BY-3.0]  
-----

Creative Commons Attribution 3.0 Unported

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS LICENSE DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE INFORMATION PROVIDED, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM ITS USE.

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. TO THE EXTENT THIS LICENSE MAY BE CONSIDERED TO BE A CONTRACT, THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

1. Definitions

a. "Adaptation" means a work based upon the Work, or upon the Work and other pre-existing works, such as a translation, adaptation, derivative work, arrangement of music or other alterations of a literary or artistic work, or phonogram or performance and includes cinematographic adaptations or any other form in which the Work may be recast, transformed, or adapted including in any form recognizably derived from the original, except that a work that constitutes a Collection will not be considered an Adaptation for the purpose of this License. For the avoidance of doubt, where the Work is a musical work, performance or phonogram, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered an Adaptation for the purpose of this License.

b. "Collection" means a collection of literary or artistic works, such as encyclopedias and anthologies, or performances, phonograms or broadcasts, or other works or subject matter other than works listed in Section 1(f) below, which, by reason of the selection and arrangement of their contents, constitute intellectual creations, in which the Work is included in its entirety in unmodified form along with one or more other contributions, each constituting separate and independent works in themselves, which together are assembled into a collective whole. A work that constitutes a Collection will not be considered an Adaptation (as defined above) for the purposes of this License.

c. "Distribute" means to make available to the public the original and copies of the Work or Adaptation, as appropriate, through sale or other transfer of ownership.

d. "Licensor" means the individual, individuals, entity or entities that offer(s) the Work under the terms of this License.

e. "Original Author" means, in the case of a literary or artistic work, the individual, individuals, entity or entities who created the Work or if no individual or entity can be identified, the publisher; and in addition (i) in the case of a performance the actors, singers, musicians, dancers, and other persons who act, sing, deliver, declaim, play in, interpret or otherwise perform literary or artistic works or expressions of folklore; (ii) in the case of a phonogram the producer being the person or legal entity who first fixes the sounds of a performance or other sounds; and, (iii) in the case of broadcasts, the organization that transmits the broadcast.

f. "Work" means the literary and/or artistic work offered under the terms of this License including without limitation any production in the literary, scientific and artistic domain, whatever may be the mode or form of its expression including digital form, such as a book, pamphlet and other writing; a lecture, address, sermon or other work of the same nature; a dramatic or dramatico-musical work; a choreographic work or entertainment in dumb show; a musical composition with or without words; a cinematographic work to which are assimilated works expressed by a process analogous to cinematography; a work of drawing, painting, architecture, sculpture, engraving or lithography; a photographic work to which are assimilated works expressed by a process analogous to photography; a work of applied art; an illustration, map, plan, sketch or three-dimensional work relative to geography, topography, architecture or science; a performance; a broadcast; a phonogram; a compilation of data to the extent it is protected as a copyrightable work; or a work performed by a variety or circus performer to the extent it is not otherwise considered a literary or artistic work.

g. "You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

h. "Publicly Perform" means to perform public recitations of the Work and to communicate to the public those public recitations, by any means or process, including by wire or wireless means or public digital performances; to make available to the public Works in such a way that members of the public may access these Works from a place and at a place individually chosen by them; to perform the Work to the public by any means or process and the communication to the public of the performances of the Work, including by public digital performance; to broadcast and rebroadcast the Work by any means including signs, sounds or images.

i. "Reproduce" means to make copies of the Work by any means including without limitation by sound or visual recordings and the right of fixation and reproducing fixations of the Work, including storage of a protected performance or phonogram in digital form or other electronic medium.

2. Fair Dealing Rights. Nothing in this License is intended to reduce, limit, or restrict any uses free from copyright or rights arising from limitations or exceptions that are provided for in connection with the copyright protection under copyright law or other applicable laws.

3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

a. to Reproduce the Work, to incorporate the Work into one or more Collections, and to Reproduce the Work as incorporated in the Collections;

b. to create and Reproduce Adaptations provided that any such Adaptation, including any translation in any medium, takes reasonable steps to clearly label, demarcate or otherwise identify that changes were made to the original Work. For example, a translation could be marked "The original work was translated from English to Spanish," or a modification could indicate "The original work has been modified.";

c. to Distribute and Publicly Perform the Work including as incorporated in Collections; and,

d. to Distribute and Publicly Perform Adaptations.

e. For the avoidance of doubt:

i. Non-waivable Compulsory License Schemes. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme cannot be waived, the Licensor reserves the exclusive right to collect such royalties for any exercise by You of the rights granted under this License;

ii. Waivable Compulsory License Schemes. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme can be waived, the Licensor waives the exclusive right to collect such royalties for any exercise by You of the rights granted under this License; and,

iii. Voluntary License Schemes. The Licensor waives the right to collect royalties, whether individually or, in the event that the Licensor is a member of a collecting society that administers voluntary licensing schemes, via that society, from any exercise by You of the rights granted under this License.

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. Subject to Section 8(f), all rights not expressly granted by

Licensors are hereby reserved.

4. Restrictions. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

a. You may Distribute or Publicly Perform the Work only under the terms of this License. You must include a copy of, or the Uniform Resource Identifier (URI) for, this License with every copy of the Work You Distribute or Publicly Perform. You may not offer or impose any terms on the Work that restrict the terms of this License or the ability of the recipient of the Work to exercise the rights granted to that recipient under the terms of the License. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties with every copy of the Work You Distribute or Publicly Perform. When You Distribute or Publicly Perform the Work, You may not impose any effective technological measures on the Work that restrict the ability of a recipient of the Work from You to exercise the rights granted to that recipient under the terms of the License. This Section 4(a) applies to the Work as incorporated in a Collection, but this does not require the Collection apart from the Work itself to be made subject to the terms of this License. If You create a Collection, upon notice from any Licensor You must, to the extent practicable, remove from the Collection any credit as required by Section 4(b), as requested. If You create an Adaptation, upon notice from any Licensor You must, to the extent practicable, remove from the Adaptation any credit as required by Section 4(b), as requested.

b. If You Distribute, or Publicly Perform the Work or any Adaptations or Collections, You must, unless a request has been made pursuant to Section 4(a), keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or if the Original Author and/or Licensor designate another party or parties (e.g., a sponsor institute, publishing entity, journal) for attribution ("Attribution Parties") in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; (ii) the title of the Work if supplied; (iii) to the extent reasonably practicable, the URI, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and (iv), consistent with Section 3(b), in the case of an Adaptation, a credit identifying the use of the Work in the Adaptation (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). The credit required by this Section 4 (b) may be implemented in any reasonable manner; provided, however, that in the case of a Adaptation or Collection, at a minimum such credit will appear, if a credit for all contributing authors of the Adaptation or Collection appears, then as part of these credits and in a manner at least as prominent as the credits for the other contributing authors. For the avoidance of doubt, You may only use the credit required by this Section for the purpose of attribution in the manner set out above and, by exercising Your rights under this License, You may not implicitly or explicitly assert or imply any connection with, sponsorship or endorsement by the Original Author, Licensor and/or Attribution Parties, as appropriate, of You or Your use of the Work, without the separate, express prior written permission of the Original Author, Licensor and/or Attribution Parties.

c. Except as otherwise agreed in writing by the Licensor or as may be otherwise permitted by applicable law, if You Reproduce, Distribute or Publicly Perform the Work either by itself or as part of any Adaptations or Collections, You must not distort, mutilate, modify or take other derogatory action in relation to the Work which would be prejudicial to the Original Author's honor or reputation. Licensor agrees that in those jurisdictions (e.g. Japan), in which any exercise of the right granted in Section 3(b) of this License (the right to make Adaptations) would be deemed to be a distortion, mutilation, modification or other derogatory action prejudicial to the Original Author's honor and reputation, the Licensor will waive or not assert, as appropriate, this Section, to the fullest extent permitted by the applicable national law, to enable You to reasonably exercise Your right under Section 3(b) of this License (right to make Adaptations) but not otherwise.

5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. Termination

a. This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have received Adaptations or Collections from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

b. Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

8. Miscellaneous

a. Each time You Distribute or Publicly Perform the Work or a Collection, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

b. Each time You Distribute or Publicly Perform an Adaptation, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

c. If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this License, and without further action by the parties to this agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

d. No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent. This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You.

e. This License may not be modified without the mutual written agreement of the Licensor and You.

f. The rights granted under, and the subject matter referenced, in this License were drafted utilizing the terminology of the Berne Convention for the Protection of Literary and Artistic Works (as amended on September 28, 1979), the Rome Convention of 1961, the WIPO Copyright Treaty of 1996, the WIPO Performances and Phonograms Treaty of 1996 and the Universal Copyright Convention (as revised on July 24, 1971). These rights and subject matter take effect in the relevant jurisdiction in which the License terms are sought to be enforced according to the corresponding provisions of the implementation of those treaty provisions in the applicable national law. If the standard suite of rights granted under applicable copyright law includes additional rights not granted under this License, such additional rights are deemed to be included in the License; this License is not intended to restrict the license of any rights under applicable law.

Creative Commons Notice

Creative Commons is not a party to this License, and makes no warranty whatsoever in connection with the Work. Creative Commons will not be liable to You or any party on any legal theory for any damages whatsoever, including without limitation any general, special, incidental or consequential damages arising in connection to this license. Notwithstanding the foregoing two (2) sentences, if Creative Commons has expressly identified itself as the Licensor hereunder, it shall have all rights and obligations of Licensor.

Except for the limited purpose of indicating to the public that the Work is licensed under the CCPL, Creative Commons does not authorize the use by either party of the trademark "Creative Commons" or any related trademark or logo of Creative Commons without the prior written consent of Creative Commons. Any permitted use will be in compliance with Creative Commons' then-current trademark usage guidelines, as may be published on its



website or otherwise made available upon request from time to time. For the avoidance of doubt, this trademark restriction does not form part of this License.

Creative Commons may be contacted at <http://creativecommons.org/>.

-----  
[CC-BY-SA-3.0]  
-----

Creative Commons Attribution-ShareAlike 3.0 Unported

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS LICENSE DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE INFORMATION PROVIDED, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM ITS USE.

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. TO THE EXTENT THIS LICENSE MAY BE CONSIDERED TO BE A CONTRACT, THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

1. Definitions

a. "Adaptation" means a work based upon the Work, or upon the Work and other pre-existing works, such as a translation, adaptation, derivative work, arrangement of music or other alterations of a literary or artistic work, or phonogram or performance and includes cinematographic adaptations or any other form in which the Work may be recast, transformed, or adapted including in any form recognizably derived from the original, except that a work that constitutes a Collection will not be considered an Adaptation for the purpose of this License. For the avoidance of doubt, where the Work is a musical work, performance or phonogram, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered an Adaptation for the purpose of this License.

b. "Collection" means a collection of literary or artistic works, such as encyclopedias and anthologies, or performances, phonograms or broadcasts, or other works or subject matter other than works listed in Section 1(f) below, which, by reason of the selection and arrangement of their contents, constitute intellectual creations, in which the Work is included in its entirety in unmodified form along with one or more other contributions, each constituting separate and independent works in themselves, which together are assembled into a collective whole. A work that constitutes a Collection will not be considered an Adaptation (as defined below) for the purposes of this License.

c. "Creative Commons Compatible License" means a license that is listed at <http://creativecommons.org/compatiblelicenses> that has been approved by Creative Commons as being essentially equivalent to this License, including, at a minimum, because that license: (i) contains terms that have the same purpose, meaning and effect as the License Elements of this License; and, (ii) explicitly permits the relicensing of adaptations of works made available under that license under this License or a Creative Commons jurisdiction license with the same License Elements as this License.

d. "Distribute" means to make available to the public the original and copies of the Work or Adaptation, as appropriate, through sale or other transfer of ownership.

e. "License Elements" means the following high-level license attributes as selected by Licensor and indicated in the title of this License: Attribution, ShareAlike.

f. "Licensor" means the individual, individuals, entity or entities that offer(s) the Work under the terms of this License.

g. "Original Author" means, in the case of a literary or artistic work, the individual, individuals, entity or entities who created the Work or if no individual or entity can be identified, the publisher; and in addition (i) in the case of a performance the actors, singers, musicians, dancers, and other persons who act, sing, deliver, declaim, play in, interpret or otherwise perform literary or artistic works or expressions of folklore; (ii) in the case of a phonogram the producer being the person or legal entity who first fixes the sounds of a performance or other sounds; and, (iii) in the case of broadcasts, the organization that transmits the broadcast.

h. "Work" means the literary and/or artistic work offered under the terms of this License including without limitation any production in the literary, scientific and artistic domain, whatever may be the mode or form of its expression including digital form, such as a book, pamphlet and other writing; a lecture, address, sermon or other work of the same nature; a dramatic or dramatico-musical work; a choreographic work or entertainment in dumb show; a musical composition with or without words; a cinematographic work to which are assimilated works expressed by a process analogous to cinematography; a work of drawing, painting, architecture, sculpture, engraving or lithography; a photographic work to which are assimilated works expressed by a process analogous to photography; a work of applied art; an illustration, map, plan, sketch or three-dimensional work relative to geography, topography, architecture or science; a performance; a broadcast; a phonogram; a compilation of data to the extent it is protected as a copyrightable work; or a work performed by a variety or circus performer to the extent it is not otherwise considered a literary or artistic work.

i. "You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

j. "Publicly Perform" means to perform public recitations of the Work and to communicate to the public those public recitations, by any means or process, including by wire or wireless means or public digital performances; to make available to the public Works in such a way that members of the public may access these Works from a place and at a place individually chosen by them; to perform the Work to the public by any means or process and the communication to the public of the performances of the Work, including by public digital performance; to broadcast and rebroadcast the Work by any means including signs, sounds or images.

k. "Reproduce" means to make copies of the Work by any means including without limitation by sound or visual recordings and the right of fixation and reproducing fixations of the Work, including storage of a protected performance or phonogram in digital form or other electronic medium.

2. Fair Dealing Rights. Nothing in this License is intended to reduce, limit, or restrict any uses free from copyright or rights arising from limitations or exceptions that are provided for in connection with the copyright protection under copyright law or other applicable laws.

3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

a. to Reproduce the Work, to incorporate the Work into one or more Collections, and to Reproduce the Work as incorporated in the Collections;

b. to create and Reproduce Adaptations provided that any such Adaptation, including any translation in any medium, takes reasonable steps to clearly label, demarcate or otherwise identify that changes were made to the original Work. For example, a translation could be marked "The original work was translated from English to Spanish," or a modification could indicate "The original work has been modified.";

c. to Distribute and Publicly Perform the Work including as incorporated in Collections; and,

d. to Distribute and Publicly Perform Adaptations.

e. For the avoidance of doubt:

i. Non-waivable Compulsory License Schemes. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme cannot be waived, the Licensor reserves the exclusive right to collect such royalties for any exercise by You of the rights granted under this License;

ii. Waivable Compulsory License Schemes. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing

scheme can be waived, the Licensor waives the exclusive right to collect such royalties for any exercise by You of the rights granted under this License; and,

iii. Voluntary License Schemes. The Licensor waives the right to collect royalties, whether individually or, in the event that the Licensor is a member of a collecting society that administers voluntary licensing schemes, via that society, from any exercise by You of the rights granted under this License.

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. Subject to Section 8(f), all rights not expressly granted by Licensor are hereby reserved.

4. Restrictions. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

a. You may Distribute or Publicly Perform the Work only under the terms of this License. You must include a copy of, or the Uniform Resource Identifier (URI) for, this License with every copy of the Work You Distribute or Publicly Perform. You may not offer or impose any terms on the Work that restrict the terms of this License or the ability of the recipient of the Work to exercise the rights granted to that recipient under the terms of the License. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties with every copy of the Work You Distribute or Publicly Perform. When You Distribute or Publicly Perform the Work, You may not impose any effective technological measures on the Work that restrict the ability of a recipient of the Work from You to exercise the rights granted to that recipient under the terms of the License. This Section 4(a) applies to the Work as incorporated in a Collection, but this does not require the Collection apart from the Work itself to be made subject to the terms of this License. If You create a Collection, upon notice from any Licensor You must, to the extent practicable, remove from the Collection any credit as required by Section 4(c), as requested. If You create an Adaptation, upon notice from any Licensor You must, to the extent practicable, remove from the Adaptation any credit as required by Section 4(c), as requested.

b. You may Distribute or Publicly Perform an Adaptation only under the terms of: (i) this License; (ii) a later version of this License with the same License Elements as this License; (iii) a Creative Commons jurisdiction license (either this or a later license version) that contains the same License Elements as this License (e.g., Attribution-ShareAlike 3.0 US); (iv) a Creative Commons Compatible License. If you license the Adaptation under one of the licenses mentioned in (i), (ii) or (iii) (the "Applicable License"), you must comply with the terms of the Applicable License generally and the following provisions: (I) You must include a copy of, or the URI for, the Applicable License with every copy of each Adaptation You Distribute or Publicly Perform; (II) You may not offer or impose any terms on the Adaptation that restrict the terms of the Applicable License or the ability of the recipient of the Adaptation to exercise the rights granted to that recipient under the terms of the Applicable License; (III) You must keep intact all notices that refer to the Applicable License and to the disclaimer of warranties with every copy of the Work as included in the Adaptation You Distribute or Publicly Perform; (IV) when You Distribute or Publicly Perform the Adaptation, You may not impose any effective technological measures on the Adaptation that restrict the ability of a recipient of the Adaptation from You to exercise the rights granted to that recipient under the terms of the Applicable License. This Section 4(b) applies to the Adaptation as incorporated in a Collection, but this does not require the Collection apart from the Adaptation itself to be made subject to the terms of the Applicable License.

c. If You Distribute, or Publicly Perform the Work or any Adaptations or Collections, You must, unless a request has been made pursuant to Section 4(a), keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or if the Original Author and/or Licensor designate another party or parties (e.g., a sponsor institute, publishing entity, journal) for attribution ("Attribution Parties") in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; (ii) the title of the Work if supplied; (iii) to the extent reasonably practicable, the URI, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and (iv), consistent with Section 3(b), in the case of an Adaptation, a credit identifying the use of the Work in the Adaptation (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). The credit required by this Section 4(c) may be implemented in any reasonable manner; provided, however, that in the case of an Adaptation or Collection, at a minimum such credit will appear, if a credit for all contributing authors of the Adaptation or Collection appears, then as part of these credits and in a manner at least as prominent as the credits for the other contributing authors. For the avoidance of doubt, You may only use the credit required by this Section for the purpose of attribution in the manner set out above and, by exercising Your rights under this License, You may not implicitly or explicitly assert or imply any connection with, sponsorship or endorsement by the Original Author, Licensor and/or Attribution Parties, as appropriate, of You or Your use of the Work, without the separate, express prior written permission of the Original Author, Licensor and/or Attribution Parties.

d. Except as otherwise agreed in writing by the Licensor or as may be otherwise permitted by applicable law, if You Reproduce, Distribute or Publicly Perform the Work either by itself or as part of any Adaptations or Collections, You must not distort, mutilate, modify or take other derogatory action in relation to the Work which would be prejudicial to the Original Author's honor or reputation. Licensor agrees that in those jurisdictions (e.g. Japan), in which any exercise of the right granted in Section 3(b) of this License (the right to make Adaptations) would be deemed to be a distortion, mutilation, modification or other derogatory action prejudicial to the Original Author's honor and reputation, the Licensor will waive or not assert, as appropriate, this Section, to the fullest extent permitted by the applicable national law, to enable You to reasonably exercise Your right under Section 3(b) of this License (right to make Adaptations) but not otherwise.

5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. Termination

a. This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have received Adaptations or Collections from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

b. Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

8. Miscellaneous

a. Each time You Distribute or Publicly Perform the Work or a Collection, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

b. Each time You Distribute or Publicly Perform an Adaptation, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

c. If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this License, and without further action by the parties to this agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

d. No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent.

e. This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

f. The rights granted under, and the subject matter referenced, in this License were drafted utilizing the terminology of the Berne Convention for the Protection of Literary and Artistic Works (as amended on September 28, 1979), the Rome Convention of 1961, the WIPO Copyright Treaty of 1996, the WIPO Performances and Phonograms Treaty of 1996 and the Universal Copyright Convention (as revised on July 24, 1971). These rights and subject matter take effect in the relevant jurisdiction in which the License terms are sought to be enforced according to the corresponding provisions of the implementation of those treaty provisions in the applicable national law. If the standard suite of rights granted under applicable copyright law includes additional rights not granted under this License, such additional rights are deemed to be included in the License; this License is not intended to restrict the license of any rights under applicable law.

#### Creative Commons Notice

Creative Commons is not a party to this License, and makes no warranty whatsoever in connection with the Work. Creative Commons will not be liable to You or any party on any legal theory for any damages whatsoever, including without limitation any general, special, incidental or consequential damages arising in connection to this license. Notwithstanding the foregoing two (2) sentences, if Creative Commons has expressly identified itself as the Licensor hereunder, it shall have all rights and obligations of Licensor.

Except for the limited purpose of indicating to the public that the Work is licensed under the CCPL, Creative Commons does not authorize the use by either party of the trademark "Creative Commons" or any related trademark or logo of Creative Commons without the prior written consent of Creative Commons. Any permitted use will be in compliance with Creative Commons' then-current trademark usage guidelines, as may be published on its website or otherwise made available upon request from time to time. For the avoidance of doubt, this trademark restriction does not form part of the License.

Creative Commons may be contacted at <http://creativecommons.org/>.

-----  
[CC0]  
-----

#### Creative Commons Legal Code CC0 1.0 Universal

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER.

#### Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

- i. the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
- ii. moral rights retained by the original author(s) and/or performer(s);
- iii. publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
- iv. rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
- v. rights protecting the extraction, dissemination, use and reuse of data in a Work;
- vi. database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
- vii. other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

#### 4. Limitations and Disclaimers.

a. No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.

b. Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or



otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.

c. Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.

d. Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

-----  
[Chromium]  
-----

// Copyright 2014 The Chromium Authors. All rights reserved.//// Redistribution and use in source and binary forms, with or without// modification, are permitted provided that the following conditions are// met://// \* Redistributions of source code must retain the above// copyright// notice, this list of conditions and the following disclaimer// in the documentation and/or other materials provided with the// distribution.// \* Neither the name of Google Inc. nor the names of its// contributors may be used to endorse or promote products derived from// this software without specific prior written permission.//// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
[curl]  
-----

#### COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2015, Daniel Stenberg, <daniel@haxx.se>.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

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.

-----  
[EPL-1.0]  
-----

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

#### 1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

#### 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

### 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

### 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

-----  
[Expat]  
-----



# License Agreement & Third party Software Declaration

EULA09200075

deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----  
[Catharon]  
-----

2000-Jul-04  
Copyright (C) 2000 by Catharon Productions, Inc.  
Introduction

=====  
This license applies to source files distributed by Catharon Productions, Inc. in several archive packages. This license applies to all files found in such packages which do not fall under their own explicit license.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

We don't promise that this software works. However, we are interested in any kind of bug reports. ('as is' distribution)

You can use this software for whatever you want, in parts or full form, without having to pay us. ('royalty-free' usage)

You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the Catharon Code. ('credits')

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering the packages distributed by Catharon Productions, Inc. and assume no liability related to their use.

Legal Terms  
=====

## 0. Definitions

-----

Throughout this license, the terms 'Catharon Package', 'package', and 'Catharon Code' refer to the set of files originally distributed by Catharon Productions, Inc.

'You' refers to the licensee, or person using the project, where 'using' is a generic term including compiling the project's source code as well as linking it to form a 'program' or 'executable'. This program is referred to as 'a program using one of the Catharon Packages'.

This license applies to all files distributed in the original Catharon Package(s), including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The Catharon Packages are copyright (C) 2000 by Catharon Productions, Inc. All rights reserved except as specified below.

## 1. No Warranty

-----

THE CATHARON PACKAGES ARE PROVIDED 'AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OF OR THE INABILITY TO USE THE CATHARON PACKAGE.

## 2. Redistribution

-----

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and

sublicense the Catharon Packages (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

- o Redistribution of source code must retain this license file ('license.txt') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.
- o Redistribution in binary form must provide a disclaimer that states that the software is based in part on the work of Catharon Productions, Inc. in the distribution documentation.

These conditions apply to any software derived from or based on the Catharon Packages, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

### 3. Advertising

Neither Catharon Productions, Inc. and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use the following phrase to refer to this software in your documentation: 'this software is based in part on the Catharon Typography Project'.

As you have not signed this license, you are not required to accept it. However, as the Catharon Packages are copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the Catharon Packages, you indicate that you understand and accept all the terms of this license.

[FTL]

#### The FreeType Project LICENSE

2006-Jan-27

Copyright 1996-2002, 2006 by David Turner, Robert Wilhelm, and Werner Lemberg

#### Introduction

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

oÅ We don't promise that this software works. However, we will be interested in any kind of bug reports. ('as is' distribution)

oÅ You can use this software for whatever you want, in parts or full form, without having to pay us. ('royalty-free' usage)

oÅ You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. ('credits')

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

"" Portions of this software are copyright Â© <year> The FreeType Project (www.freetype.org). All rights reserved. ""

Please replace <year> with the value from the FreeType version you actually use.

#### Legal Terms

##### 0.Å Definitions

Throughout this license, the terms 'package', 'FreeType Project', and 'FreeType archive' refer to the set of files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the 'FreeType Project', be they named as alpha, beta or final release.

'You' refers to the licensee, or person using the project, where 'using' is a generic term including compiling the project's source code as well as linking it to form a 'program' or 'executable'. This program is referred to as 'a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

##### 1.Å No Warranty

THE FREETYPE PROJECT IS PROVIDED 'AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

## 2. Redistribution

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

o Redistribution of source code must retain this license file ('FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

## 3. Advertising

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: 'FreeType Project', 'FreeType Engine', 'FreeType library', or 'FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this license.

## 4. Contacts

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

<http://www.freetype.org>

-----  
[FSF]  
-----

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 is offered as-is, without any warranty.

-----  
[GAP]  
-----

Copyright (C) (1987--2020) by the GAP Group,

incorporating the Copyright (C) 1999, 2000 by  
School of Mathematical and Computational Sciences,  
University of St Andrews,  
North Haugh, St Andrews, Fife KY16 9SS, Scotland

being the Copyright (C) 1992 by  
Lehrstuhl D fuer Mathematik, RWTH,  
52056 Aachen, Germany,  
transferred to St~Andrews on July 21st, 1997.

except for files in the distribution, which have an explicit different copyright statement. In particular, the copyright of packages distributed with GAP is usually with the package authors or their institutions.

GAP 4 License

GAP 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. The MS Windows binary for GAP uses cygwin and therefore is GPLv2 (that is, "GPL version 2" not "GPL version 2 or later"). For details, see the file 'GPL' in the 'etc' directory of the GAP distribution or see The FSF's own site.

Feedback

The GAP Group is interested in all your comments and suggestions. In particular we ask you to consider the following types of feedback.

If you publish a mathematical result that was partly obtained using GAP, please cite GAP, just as you would cite a paper that you used (see recommended citation for GAP).

Please, tell us about publications in which GAP was cited, as described on the page feedback by writing to support@gap-system.org.

-----  
[GNU-All-permissive]  
-----

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 is offered as-is, without any warranty.

Copyright (C)

-----  
[HPND]  
-----

## Historical Permission Notice and Disclaimer

<copyright notice>

Permission to use, copy, modify and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies, and that both the copyright notice and this permission notice appear in supporting documentation, and that the name of <copyright holder> or related entities not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. <copyright holder> makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

<copyright holder> DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL <copyright holder> BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----  
[Image Magick]  
-----

Before we get to the text of the license, lets just review what the license says in simple terms:

It allows you to:

- \* freely download and use ImageMagick software, in whole or in part, for personal, company internal, or commercial purposes;
- \* use ImageMagick software in packages or distributions that you create;
- \* link against a library under a different license;
- \* link code under a different license against a library under this license;
- \* merge code into a work under a different license;
- \* extend patent grants to any code using code under this license;
- \* and extend patent protection.

It forbids you to:

- \* redistribute any piece of ImageMagick-originated software without proper attribution;
- \* use any marks owned by ImageMagick Studio LLC in any way that might state or imply that ImageMagick Studio LLC endorses your distribution;
- \* use any marks owned by ImageMagick Studio LLC in any way that might state or imply that you created the ImageMagick software in question.

It requires you to:

- \* include a copy of the license in any redistribution you may make that includes ImageMagick software;
- \* provide clear attribution to ImageMagick Studio LLC for any distributions that include ImageMagick software.

It does not require you to:

- \* include the source of the ImageMagick software itself, or of any modifications you may have made to it, in any redistribution you may assemble that includes it;
- \* submit changes that you make to the software back to the ImageMagick Studio LLC (though such feedback is encouraged).

A few other clarifications include:

- \* ImageMagick is freely available without charge;
- \* you may include ImageMagick on a DVD as long as you comply with the terms of the license;
- \* you can give modified code away for free or sell it under the terms of the ImageMagick license or distribute the result under a different license, but you need to acknowledge the use of the ImageMagick software;
- \* the license is compatible with the GPL V3.
- \* when exporting the ImageMagick software, review its export classification.

Terms and Conditions for Use, Reproduction, and Distribution

The legally binding and authoritative terms and conditions for use, reproduction, and distribution of ImageMagick follow:

Copyright 1999-2013 ImageMagick Studio LLC, a non-profit organization dedicated to making software imaging solutions freely available.

### 1. Definitions.

License shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

Licensor shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

Legal Entity shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, control means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

You (or Your) shall mean an individual or Legal Entity exercising permissions granted by this License.

Source form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

Object form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

Work shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

Derivative Works shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

Contribution shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as Not a Contribution.

Contributor shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity





# License Agreement & Third party Software Declaration

EULA09200075

(including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- a. You must give any other recipients of the Work or Derivative Works a copy of this License; and
- b. You must cause any modified files to carry prominent notices stating that You changed the files; and
- c. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- d. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### How to Apply the License to your Work

To apply the ImageMagick License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information (don't include the brackets). The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the ImageMagick License (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.imagemagick.org/script/license.php>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

-----  
[ISC]  
-----

#### ISC License

Copyright (c) 2004-2010 by Internet Systems Consortium, Inc. ("ISC")

Copyright (c) 1995-2003 by Internet Software Consortium

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----  
[LLVM]  
-----

=====  
LLVM Release License  
=====

University of Illinois/NCSA  
Open Source License

Copyright (c) 2003-2010 University of Illinois at Urbana-Champaign.



# License Agreement & Third party Software Declaration

EULA09200075

All rights reserved.

Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal with the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimers.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimers in the documentation and/or other materials provided with the distribution.
- \* Neither the names of the LLVM Team, University of Illinois at Urbana-Champaign, nor the names of its contributors may be used to endorse or promote products derived from this Software without specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH THE SOFTWARE.

=====  
Copyrights and Licenses for Third Party Software Distributed with LLVM:  
=====

The LLVM software contains code written by third parties. Such software will have its own individual LICENSE.TXT file in the directory in which it appears. This file will describe the copyrights, license, and restrictions which apply to that code.

The disclaimer of warranty in the University of Illinois Open Source License applies to all code in the LLVM Distribution, and nothing in any of the other licenses gives permission to use the names of the LLVM Team or the University of Illinois to endorse or promote products derived from this Software.

The following pieces of software have additional or alternate copyrights, licenses, and/or restrictions:

| Program         | Directory  |
|-----------------|--|
| -----           | -----  |
| Autoconf        | llvm/autoconf<br>llvm/projects/ModuleMaker/autoconf<br>llvm/projects/sample/autoconf |
| CellSPU backend | llvm/lib/Target/CellSPU/README.txt   |
| Google Test     | llvm/utils/unittest/googletest   |
| OpenBSD regex   | llvm/lib/Support/{reg*, COPYRIGHT.regex}   |

-----  
[MIT]  
-----

MIT License

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



-----  
[NTP]  
-----

NTP License (NTP)

Copyright (c) (CopyrightHoldersName) (From 4-digit-year)-(To 4-digit-year)

Permission to use, copy, modify, and distribute this software and its documentation for any purpose with or without fee is hereby granted, provided that the above copyright notice appears in all copies and that both the copyright notice and this permission notice appear in supporting documentation, and that the name (TrademarkedName) not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. (TrademarkedName) makes no representations about the suitability this software for any purpose. It is provided "as is" without express or implied warranty.

-----  
[OFL-1.1]  
-----

Copyright (c) <dates>, <Copyright Holder> (<URL|email>),  
with Reserved Font Name <Reserved Font Name>.

This Font Software is licensed under the SIL Open Font License, Version 1.1.

This license is copied below, and is also available with a FAQ at: <http://scripts.sil.org/OFL>

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

PREAMBLE

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply to any document created using the fonts or their derivatives.

DEFINITIONS

"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting (in part or in whole) any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS

Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

- 1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.
- 2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.
- 3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.
- 4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.
- 5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

TERMINATION

This license becomes null and void if any of the above conditions are not met.

DISCLAIMER

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

-----  
[OPL-1.0]  
-----

OPEN PUBLIC LICENSE

Version 1.0

1. Definitions.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work, which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document and the corresponding addendum described in section 6.4 below.

1.9.Â "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A.Â Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B.Â Any new file that contains any part of the Original Code or previous Modifications.

1.10.Â "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.11.Â "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or a list of source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12.Â "You" means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of fifty percent (50%) or more of the outstanding shares or beneficial ownership of such entity.

1.13.Â "License Author" means Lutris Technologies, Inc.

2.Â Source Code License.

2.1.Â The Initial Developer Grant. The Initial Developer hereby grants You a worldwide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a)Â under intellectual property rights (other than patent or trademark) to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, or as part of a Larger Work; and

(b)Â under patents now or hereafter owned or controlled by Initial Developer, to make, have made, use and sell ("offer to sell and import") the Original Code (or portions thereof), but solely to the extent that any such patent is reasonably necessary to enable You to Utilize the Original Code (or portions thereof) and not to any greater extent that may be necessary to Utilize further Modifications or combinations.

2.2.Â Contributor Grant. Each Contributor hereby grants You a worldwide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a)Â under intellectual property rights (other than patent or trademark) to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code or as part of a Larger Work; and

(b)Â under patents now or hereafter owned or controlled by Contributor, to to make, have made, use and sell ("offer to sell and import") the Contributor Version (or portions thereof), but solely to the extent that any such patent is reasonably necessary to enable You to Utilize the Contributor Version (or portions thereof), and not to any greater extent that may be necessary to Utilize further Modifications or combinations

3.Â Distribution Obligations.

3.1.Â Application of License. The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2.Â Availability of Source Code. Any Modification which You create or to which You contribute must be made available, prior to any use, except for internal development and practice, in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You shall notify the Initial Developer of the Modification and the location of the Source Code via the contact means provided for in the Developer Specific license. Initial Developer will be acting as maintainer of the Source Code and may provide an Electronic Distribution mechanism for the Modification to be made available.

3.3.Â Description of Modifications. You must cause all Covered Code to which you contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4.Â Intellectual Property Matters

(a)Â Third Party Claims. If You have knowledge that a party claims an intellectual property right in particular functionality or code (or its utilization under this License), you must include a text file with the source code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If you obtain such knowledge after You make Your Modification available as described in Section 3.2, You shall promptly modify the LEGAL file in all copies You make available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

(b)Â Representations. Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5.Â Required Notices. You must duplicate the notice in Exhibit A in each file of the Source Code, and this License in any documentation for the Source Code, where You describe recipients' rights relating to Covered Code. If You created one or more Modification(s), You may add your name as a Contributor to the notice described in Exhibit A. If it is not possible to put such notice in a particular Source Code file due to its structure, then you must include such notice in a location (such as a relevant directory file) where a user would be likely to look for such a notice. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6.Â Distribution of Executable Versions. You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer. If you distribute executable versions containing Covered Code, you must reproduce the notice in Exhibit B in the documentation and/or other materials provided with the product.

3.7.Â Larger Works. You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

#### 4.4 Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) Cite all of the statutes or regulations that prohibit you from complying fully with this license. (c) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

#### 5.4 Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A, and to related Covered Code.

#### 6.4 Versions of the License.

6.1.4 New Versions. License Author may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number and shall be submitted to [opensource.org](http://opensource.org) for certification.

6.2.4 Effect of New Versions. Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Initial Developer. No one other than Initial Developer has the right to modify the terms applicable to Covered Code created under this License.

6.3.4 Derivative Works. If you create or use a modified version of this License, except in association with the required Developer Specific License described in section 6.4, (which you may only do in order to apply it to code which is not already Covered Code governed by this License), you must (a) rename Your license so that the phrases ``Open'', ``OpenPL'', ``OPL'' or any confusingly similar phrase do not appear anywhere in your license and (b) otherwise make it clear that your version of the license contains terms which differ from the Open Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

#### 6.4.4 Required Additional Developer Specific License

This license is a union of the following two parts that should be found as text files in the same place (directory), in the order of preeminence:

[1]4 A Developer specific license.

[2]4 The contents of this file OPL\_1\_0.TXT, stating the general licensing policy of the software.

In case of conflicting dispositions in the parts of this license, the terms of the lower-numbered part will always be superseded by the terms of the higher numbered part.

#### 7.4 DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

#### 8.4 TERMINATION.

##### 8.1.4 Termination upon Breach

This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code, which are properly granted, shall survive any termination of this License. Provisions that, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2.4 Termination Upon Litigation. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a)4 such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b)4 any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3.4 If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4.4 In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

#### 9.4 LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO YOU OR ANY OTHER PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THAT EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

#### 10.4 U.S. GOVERNMENT END USERS.

The Covered Code is a ``commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of ``commercial computer software" and ``commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

#### 11.4 MISCELLANEOUS.

his section was intentionally left blank. The contents of this section are found in the corresponding addendum described above.

#### 12.4 RESPONSIBILITY FOR CLAIMS.

Except in cases where another Contributor has failed to comply with Section 3.4, You are responsible for damages arising, directly or indirectly, out of Your utilization of rights under this License, based on the number of copies of Covered Code you made available, the revenues you received from utilizing such rights, and other relevant factors. You agree to work with affected parties to distribute with Initial Developer responsibility on an equitable basis.

#### EXHIBIT A.

Text for this Exhibit A is found in the corresponding addendum, described in section 6.4 above, text file provided by the Initial Developer. This license is not valid or complete without that file.

#### EXHIBIT B.

Text for this Exhibit B is found in the corresponding addendum, described in section 6.4 above, text file provided by the Initial Developer. This license is not valid or complete without that file.

-----  
[OpenEXR]  
-----

Copyright (c) 2006-2019 OpenEXR a Series of LF Projects, LLC. All rights reserved.  
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.  
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
[Open LDAP]  
-----

The OpenLDAP Public License  
Version 2.8, 17 August 2003

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source form must retain copyright statements and notices,
2. Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution, and
3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing in this Software without specific, written prior permission. Title to copyright in this Software shall at all times remain with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City, California, USA. All Rights Reserved. Permission to copy and distribute verbatim copies of this document is granted.

-----  
[PHP-3.0]  
-----

The PHP License, version 3.0  
Copyright (c) 1999 - 2006 The PHP Group. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, is permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name "PHP" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact group@php.net.
4. Products derived from this software may not be called "PHP", nor may "PHP" appear in their name, without prior written permission from group@php.net. You may indicate that your software works in conjunction with PHP by saying "Foo for PHP" instead of calling it "PHP Foo" or "phpfoo".
5. The PHP Group may publish revised and/or new versions of the license from time to time. Each version will be given a distinguishing version number. Once covered code has been published under a particular version of the license, you may always continue to use it under the terms of that version. You may also choose to use such covered code under the terms of any subsequent version of the license published by the PHP Group. No one other than the PHP Group has the right to modify the terms applicable to covered code created under this License.

6. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes PHP, freely available from <<http://www.php.net/>>".

THIS SOFTWARE IS PROVIDED BY THE PHP DEVELOPMENT TEAM ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PHP DEVELOPMENT TEAM OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of voluntary contributions made by many individuals on behalf of the PHP Group.

The PHP Group can be contacted via Email at group@php.net.

For more information on the PHP Group and the PHP project, please see <<http://www.php.net/>>.

This product includes the Zend Engine, freely available at <<http://www.zend.com/>>.

-----  
[PostgreSQL]  
-----

This is a template license. The body of the license starts at the end of this paragraph. To use it, say that it is The PostgreSQL License, and then substitute the copyright year and name of the copyright holder into the body of the license. Then put the license into a prominent file ("COPYRIGHT", "LICENSE" or "COPYING" are common names for this file) in your software distribution.

Copyright (c) \$YEAR, \$ORGANIZATION

Permission to use, copy, modify, and distribute this software and its documentation for any purpose, without fee, and without a written agreement is hereby granted, provided that the above copyright notice and this paragraph and the following two paragraphs appear in all copies.

IN NO EVENT SHALL \$ORGANISATION BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN IF \$ORGANISATION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\$ORGANISATION SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS, AND \$ORGANISATION HAS NO OBLIGATIONS TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

-----  
[PSF Python]  
-----

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

-----  
[Ruby]  
-----

1. You may make and give away verbatim copies of the source form of the software without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may modify your copy of the software in any way, provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or by allowing the author to include your modifications in the software.

b) use the modified software only within your corporation or organization.

c) give non-standard binaries non-standard names, with instructions on where to get the original software distribution.



d)Â make other distribution arrangements with the author.

3.Â You may distribute the software in object code or binary form, provided that you do at least ONE of the following:

a)Â distribute the binaries and library files of the software, together with instructions (in the manual page or equivalent) on where to get the original distribution.

b)Â accompany the distribution with the machine-readable source of the software.

c)Â give non-standard binaries non-standard names, with instructions on where to get the original software distribution.

d)Â make other distribution arrangements with the author.

4.Â You may modify and include the part of the software into any other software (possibly commercial). But some files in the distribution are not written by the author, so that they are not under these terms.

For the list of those files and their copying conditions, see the file LEGAL.

5.Â The scripts and library files supplied as input to or produced as output from the software do not automatically fall under the copyright of the software, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this software.

6.Â THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

-----  
[SGI]  
-----

#### SGI FREE SOFTWARE LICENSE B

(Version 2.0, Sept. 18, 2008)

Copyright (C) [dates of first publication] Silicon Graphics, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice including the dates of first publication and either this permission notice or a reference to <http://oss.sgi.com/projects/FreeB/> shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL SILICON GRAPHICS, INC. BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Silicon Graphics, Inc. shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from Silicon Graphics, Inc.

-----  
[SIL-1.1]  
-----

Copyright (c) [year] [fullname] ([email])

This Font Software is licensed under the SIL Open Font License, Version 1.1.

This license is copied below, and is also available with a FAQ at:

<http://scripts.sil.org/OFL>

-----  
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007  
-----

#### PREAMBLE

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply to any document created using the fonts or their derivatives.

#### DEFINITIONS

"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a

new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

#### PERMISSION AND CONDITIONS

Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

- 1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.
- 2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.
- 3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.
- 4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.
- 5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

#### TERMINATION

This license becomes null and void if any of the above conditions are not met.

#### DISCLAIMER

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

-----  
[Ubuntu-Font-License-1.0]  
-----

#### PREAMBLE

This licence allows the licensed fonts to be used, studied, modified and redistributed freely. The fonts, including any derivative works, can be bundled, embedded, and redistributed provided the terms of this licence are met. The fonts and derivatives, however, cannot be released under any other licence. The requirement for fonts to remain under this licence does not require any document created using the fonts or their derivatives to be published under this licence, as long as the primary purpose of the document is not to be a vehicle for the distribution of the fonts.

#### DEFINITIONS

"Font Software" refers to the set of files released by the Copyright Holder(s) under this licence and clearly marked as such. This may include source files, build scripts and documentation.

"Original Version" refers to the collection of Font Software components as received under this licence.

"Modified Version" refers to any derivative made by adding to, deleting,

or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Copyright Holder(s)" refers to all individuals and companies who have a copyright ownership of the Font Software.

"Substantially Changed" refers to Modified Versions which can be easily identified as dissimilar to the Font Software by users of the Font Software comparing the Original Version with the Modified Version.

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 and with or without charging a redistribution fee), making available to the public, and in some countries other activities as well.

#### PERMISSION & CONDITIONS

This licence does not grant any rights under trademark law and all such rights are reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to propagate the Font Software, subject to the below conditions:

1) Each copy of the Font Software must contain the above copyright notice and this licence. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.

2) The font name complies with the following:

- (a) The Original Version must retain its name, unmodified.
- (b) Modified Versions which are Substantially Changed must be renamed to avoid use of the name of the Original Version or similar names entirely.
- (c) Modified Versions which are not Substantially Changed must be renamed to both (i) retain the name of the Original Version and (ii) add additional naming elements to distinguish the Modified Version from the Original Version. The name of such Modified Versions must be the name of the Original Version, with "derivative X" where X represents the name of the new work, appended to that name.

3) The name(s) of the Copyright Holder(s) and any contributor to the Font Software shall not be used to promote, endorse or advertise any Modified Version, except (i) as required by this licence, (ii) to acknowledge the contribution(s) of the Copyright Holder(s) or (iii) with their explicit written permission.

4) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this licence, and must not be distributed under any other licence. The requirement for fonts to remain under this licence does not affect any document created using the Font Software, except any version of the Font Software extracted from a document created using the Font Software may only be distributed under this licence.

#### TERMINATION

This licence becomes null and void if any of the above conditions are not met.

#### DISCLAIMER

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

-----  
[Vim]  
-----



#### VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.

2) The modified Vim must be distributed in one of the following five ways:

a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.

- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.

- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

-----  
[WTFPL]

#### DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE

Version 2, December 2004

Copyright (C) 2004 Sam Hocevar <sam@hocevar.net>

Everyone is permitted to copy and distribute verbatim or modified copies of this license document, and changing it is allowed as long as the name is changed.

#### DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. You just DO WHAT THE FUCK YOU WANT TO.

-----  
[x11]

#### X11 License

Copyright (C) 1996 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

X Window System is a trademark of X Consortium, Inc.

-----  
[Zend License v2.0]

The Zend Engine License, version 2.00

Copyright (c) 1999-2002 Zend Technologies Ltd. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, is permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names "Zend" and "Zend Engine" must not be used to endorse or promote products derived from this software without prior permission from Zend Technologies Ltd. For written permission, please contact [license@zend.com](mailto:license@zend.com).
4. Zend Technologies Ltd. may publish revised and/or new versions of the license from time to time. Each version will be given a distinguishing version number. Once covered code has been published under a particular version of the license, you may always continue to use it under the terms of that version. You may also choose to use such covered code under the terms of any subsequent version of the license published by Zend Technologies Ltd. No one other than Zend Technologies Ltd. has the right to modify the terms applicable to covered code created under this License.
5. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes the Zend Engine, freely available at <http://www.zend.com>"
6. All advertising materials mentioning features or use of this software must display the following acknowledgment: "The Zend Engine is freely available at <http://www.zend.com>"

THIS SOFTWARE IS PROVIDED BY ZEND TECHNOLOGIES LTD. "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ZEND TECHNOLOGIES LTD. BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
[ZOPE-2.1]  
-----

#### Zope Public License (ZPL) Version 2.1

A copyright notice accompanies this license document that identifies the copyright holders.

This license has been certified as open source. It has also been designated as GPL compatible by the Free Software Foundation (FSF).

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source code must retain the accompanying copyright notice, this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the accompanying copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Names of the copyright holders must not be used to endorse or promote products derived from this software without prior written permission from the copyright holders.
4. The right to distribute this software or to use it for any purpose does not give you the right to use Servicemarks (sm) or Trademarks (tm) of the copyright holders. Use of them is covered by separate agreement with the copyright holders.
5. If any files are modified, you must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

#### Disclaimer

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.