

Lizenzinformationen von ABUS zur Verwendung von Open Source Software

1. Das Produkt enthält Softwarebestandteile, die von den Rechteinhabern als Freie Software bzw. Open Source Software lizenziert werden (nachfolgend als „OSS“ bezeichnet). Die entsprechenden Lizenzen sind in **Anhang A** abgedruckt, und Sie können Nutzungsrechte in dem dort geregelten Umfang unmittelbar von den Rechteinhabern erwerben.

Die Open Source-Lizenzen haben Vorrang vor allen anderen Lizenzbedingungen und vertraglichen Vereinbarungen mit ABUS in Bezug auf die entsprechenden im Produkt enthaltenen OSS-Softwarekomponenten.

2. Jedermann kann den Quellcode der OSS-Softwarekomponenten von uns auf einem Datenträger erhalten, wenn Sie innerhalb von drei Jahren nach dem Vertrieb des Produkts durch uns bzw. zumindest solange, wie wir Support und Ersatzteile für das Produkt anbieten, eine Anfrage an unsere Kundenbetreuung an folgende Adresse stellen:

ABUS Security Center GmbH & Co. KG
Open Source Compliance Department
Linker Kreuthweg 5
86444 Affing (Germany)
"Quellcode HomeTec Pro WLAN Bridge"

und EUR 10,- für die Kosten zur Erstellung und Übersendung des Datenträgers zahlen. Eine vollständige Dokumentation der OSS, die Lizenzbedingungen und die Urhebervermerke finden Sie im Quellcode der OSS.

3. Es ist Ihnen gestattet, Softwarebestandteile, die von uns stammen, für Ihren eigenen Gebrauch zu bearbeiten und zur Behebung von Fehlern solcher Bearbeitungen zu reengineeren, sofern diese Softwarebestandteile mit Programmbibliotheken unter der GNU Lesser General Public License (LGPL) verlinkt sind. Die Weitergabe der bei dem Reengineering gewonnenen Informationen und der bearbeiteten Software ist hingegen nicht gestattet.

4. Die Sicherheit unserer Produkte ist von uns von zentraler Bedeutung. Daher können modifizierte Versionen der verwendeten OSS im Regelfall nur installiert werden, wenn die verwendeten Sicherheitsfeatures durch uns entfernt werden. Bitte beachten Sie, dass die Installation geänderter Software zum Verlust von Sicherheitsmerkmalen führen kann. Wenn Sie dennoch modifizierte Versionen der Softwarekomponenten installieren möchten, die unter der GNU General Public License (GPL) und/oder der LGPL lizenziert sind, senden Sie das Produkt bitte an die folgende Adresse:

ABUS Security Center GmbH & Co. KG
Open Source Compliance Department
Linker Kreuthweg 5
86444 Affing (Germany)
"Freischaltung zur Installation HomeTec Pro WLAN Bridge"

Sofern technisch möglich, werden wir Ihnen dann die Installation von GPL- und/oder LGPL-Software ermöglichen und unsere Marken von dem Produkt entfernen. Die Weiterverbreitung des Produkts mit modifizierter Software ist jedoch nicht gestattet. Auch die Verwendung des Produkts kann verboten sein, wenn sie gegen gesetzliche Bestimmungen verstößt.

Die Gewährleistung erlischt für alle Mängel, die auf der Verwendung modifizierter Software beruhen.

5. Auf Wunsch der Urheber und Rechteinhaber der eingesetzten OSS-Softwarekomponenten weisen wir auf folgendes hin:

„THE OPEN SOURCE SOFTWARE IN THIS PRODUCT 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 applicable licenses for more details.”

6. Hinweise

OpenSSL:

“This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>)”

"This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

ABUS Open Source License Information

1. This product contains third party Open Source Software and Free Software distributed under a number of different licenses (hereinafter referred to as „OSS“). The respective licenses are listed in **Annex A**, and you can obtain comprehensive rights directly from the right holders to the extent specified therein.

The open source licenses prevail over all other license conditions and contractual agreements with ABUS with regard to the corresponding OSS software components contained in the product.

2. Anyone can obtain the source code of the OSS 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:

ABUS Security Center GmbH & Co. KG
Open Source Compliance Department
Linker Kreuthweg 5
86444 Affing (Germany)
"Quellcode HomeTec Pro WLAN Bridge"

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 OSS.

3. Modifications of the proprietary software of ABUS 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.

4. The security of our products is of paramount importance to us. Therefore, modified versions of the OSS used cannot be installed unless the security features are removed by us. Please note that the installation of modified software can result in the loss of security features. If you want to install modified versions of software components licensed under the GNU General Public License (GPL) and/or LGPL, please send the product to the following address:

ABUS Security Center GmbH & Co. KG
Open Source Compliance Department
Linker Kreuthweg 5
86444 Affing (Germany)
"Unlocking for installation HomeTec Pro WLAN Bridge"

If possible, we will enable you to install GPL and/or LGPL software and we will remove our trademarks on the product. Redistribution of the product with modified software is not permitted. Please note: using the product with modified software is prohibited if it conflicts with applicable statutory provisions.

The warranty expires for all defects that are based on the use of modified software.

5. At the request of the copyright holders of the OSS components we refer to the following:

„THE OPEN SOURCE SOFTWARE IN THIS PRODUCT 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 applicable licenses for more details.”

6. Acknowledgements

OpenSSL:

“This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>)”

"This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

Anhang A / Annex A

GPL-1.0-or-later

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

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

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

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

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

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

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

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

That's all there is to it!

Standard License Header

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

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

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

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.

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 an idea of what it does.

Copyright (C) yyyy 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.

GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007

Copyright © 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 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:

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

- 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.
- 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 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.
- 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.
- 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 <<https://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 <<https://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 <<https://www.gnu.org/licenses/why-not-lgpl.html>>.

Standard License Header

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, version 3.

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 <<https://www.gnu.org/licenses/>>.

Linux Syscall Note

NOTE! This copyright does *not* cover user programs that use kernel services by normal system calls - this is merely considered normal use of the kernel, and does *not* fall under the heading of "derived work". Also note that the GPL below is copyrighted by the Free Software Foundation, but the instance of code that it refers to (the Linux kernel) is copyrighted by me and others who actually wrote it.

Also note that the only valid version of the GPL as far as the kernel is concerned is this particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated.

Linus Torvalds

GCC linking exception

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

In addition to the permissions in the GNU General Public License, the Free Software Foundation gives you unlimited permission to link the compiled version of this file into combinations with other programs, and to distribute those combinations without any restriction coming from the use of this file. (The General Public License restrictions do apply in other respects; for example, they cover modification of the file, and distribution when not linked into a combine executable.)

GCC 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 GCC; see the file COPYING. If not, write to the Free Software Foundation, 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 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.

[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.

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 code 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 an 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 St, 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!

Standard License Header

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; version 2.

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 St, Fifth Floor, Boston, MA 02110-1301, USA.

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.

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.

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 an 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., 59 Temple Place, Suite 330, Boston, MA 02111-1307 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!

.....

MIT Licence

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 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.

.....

BSD-2-Clause

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. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- THIS SOFTWARE IS PROVIDED BY THE 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.
-

3-clause (or "modified") BSD license

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. 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 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-Clause

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. 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. 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.
-

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:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
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
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.

ISC License (ISC)
Copyright <YEAR> <OWNER>

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 THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR 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.

GFDL-1.1-or-later

GNU Free Documentation License
Version 1.1, March 2000

Copyright (C) 2000 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 written 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 that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you".

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. (For example, 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.

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 "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, whose contents can be viewed and edited directly and 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 has been designed to thwart or discourage subsequent modification by readers is not Transparent. 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 designed for human modification. Opaque formats include PostScript, PDF, 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 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.

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 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 publicly-accessible computer-network location containing a complete Transparent copy of the Document, free of added material, which the general network-using public has access to download anonymously at no charge using public-standard network protocols. 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 less than five).
- 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", and 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. In any section entitled "Acknowledgements" or "Dedications", preserve the section's title, 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 as "Endorsements" or to conflict in title with any Invariant Section.

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.

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, does not as a whole count as a Modified Version of the Document, provided no compilation copyright is claimed for the compilation. Such a compilation is called an "aggregate", and this License does not apply to the other self-contained works thus compiled with the Document, on account of their being thus compiled, if they 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 quarter of the entire aggregate, the Document's Cover Texts may be placed on covers that surround only the Document within the aggregate. Otherwise they must appear on covers around 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 provided that you also include the original English version of this License. In case of a disagreement between the translation and the original English version of this License, the original English version will prevail.

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 1.1 or any later version published by the Free Software Foundation; with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have no Invariant Sections, write "with no Invariant Sections" instead of saying which ones are invariant. If you have no Front-Cover Texts, write "no Front-Cover Texts" instead of "Front-Cover Texts being LIST"; likewise for Back-Cover Texts.

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.

Standard License Header

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 1.1 or any later version published by the Free Software Foundation; with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST. A copy of the license is included in the section entitled "GNU Free Documentation License".

GFDL-1.2-or-later

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.

Standard License Header

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 the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST. A copy of the license is included in the section entitled "GNU Free Documentation License".

GFDL-1.3-or-later

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.

Standard License Header

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 the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST. A copy of the license is included in the section entitled "GNU Free Documentation License".

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.

"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 ftp.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) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting 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.
 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 whomever generated them, and may be sold commercially, and may be aggregated with this Package.
 7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.
 8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.
 9. 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
-

curl License

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.

Expat License

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd

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 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.

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.

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.

Open SSL

The OpenSSL toolkit stays under a double license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

OpenSSL License

Copyright (c) 1998-2011 The OpenSSL Project. 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. All advertising materials mentioning features or use of this software must display the following acknowledgment:
"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"
4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.
5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.
6. Redistributions of any form whatsoever must retain the following acknowledgment:
"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "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 OpenSSL PROJECT 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 product includes cryptographic software written by Eric Young (ey@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Original SSLeay License

/ Copyright (C) 1995-1998 Eric Young (ey@cryptsoft.com)
All rights reserved.

This package is an SSL implementation written by Eric Young (ey@cryptsoft.com). The implementation was written so as to conform with Netscapes SSL.

This library is free for commercial and non-commercial use as long as the following conditions are aheared to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed. If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

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 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 cryptographic software written by Eric Young (ey@cryptsoft.com)"
The word 'cryptographic' can be left out if the rouines from the library being used are not cryptographic related :-).
4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement:
"This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR 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.

The licence and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution licence [including the GNU Public Licence.]

DocID: 091BNCKA

Komponente: **Server** Linux: Ubuntu 18.04.6 LTS ("bionic")
 Bezeichnung: ABUS HomeTec Pro Bridge Linux-Kernel: 4.19.57 (<https://www.kernel.org/>)
 U-Boot: 2019.04-armbian (Jul 06 2019 - 00:54:30 +0200) Allwinner Technology

Software	Version	Lizenztyp / License type
adduser	3.116ubuntu1	GPL-2
adwaita-icon-theme	3.28.0-1ubuntu1	GFDL-1.2 GPL LGPL-3
aespipe	2.4d-1	GPL
alsa-base	1.0.25+dfsg-0ubuntu5	GPL-2
alsa-utils	1.1.3-1ubuntu1	LPGL-2.1+
apt	1.6.12ubuntu0.2	GPL-2
apt-show-versions	0.22.7ubuntu1	GPL-2
apt-transport-https	1.6.12ubuntu0.2	GPL-2
apt-utils	1.6.12ubuntu0.2	GPL-2
aptitude	0.8.10-6ubuntu1	GPL-2+
aptitude-common	0.8.10-6ubuntu1	GPL-2+
autoconf	2.69-11	GFDL-1.3+ GPL-2+ GPL-2+ with Autoconf exception GPL-3+ GPL-3+ with Autoconf exception GPL-3+ with Texinfo exception MIT-X-Consortium no-modification other permissive permissive-long-disclaimer permissive-short-disclaimer permissive-without-disclaimer permissive-without-notices-or-disclaimer
automake	1:1.15.1-3ubuntu2	GFDL-NIV-1.3+ GPL-2+ GPL-3+ permissive
autossh	1.4e-4	ISC-MirOS-Flavour ISC-OpenBSD-Flavour MirOS autossh autossh or ISC-OpenBSD-Flavour or MirOS or ISC-MirOS-Flavour
autotools-dev	20180224.1	GPL
avahi-autoipd	0.7-3.1ubuntu1.2	GPL GPL-2 LGPL-2.1
avahi-daemon	0.7-3.1ubuntu1.2	GPL GPL-2 LGPL-2.1
avahi-utils	0.7-3.1ubuntu1.2	GPL GPL-2 LGPL-2.1
avr-libc	1:2.0.0+Atmel3.6.0-1	BSD License GPL-compatible
avrdude	06.03.2004	GPL-2
base-files	10.1ubuntu2.4	GPL
base-passwd	03.05.1944	GPL-2
bash	4.4.18-2ubuntu1.2	GPL-3
bash-completion	1:2.8-1ubuntu1	GPL-2+
bc	1.07.1-2	GPL-2.0+ GPL-2.0+ with Texinfo exception X11 permissive permissive' public-domain
bind9-host	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
binutils	2.30-21ubuntu1~18.04.2	GFDL GPL LGPL
binutils-arm-linux-gnueabihf	2.30-21ubuntu1~18.04.2	GFDL GPL LGPL
binutils-avr	2.26.20160125+Atmel3.6.0-1	GFDL GPL LGPL
binutils-common:armhf	2.30-21ubuntu1~18.04.2	GFDL GPL LGPL
bison	2:3.0.4.dfsg-1build1	GPL-2+ GPL-3+
bluetooth	5.48-0ubuntu3.4	GFDL GPL-2 LGPL-2.1
bluez	5.48-0ubuntu3.4	GFDL GPL-2 LGPL-2.1
bluez-tools	0.2.0~20140808-5build1	GPL-2+
bridge-utils	1.5-15ubuntu1	GPL-2
bsdutils	1:2.31.1-0.4ubuntu3.3	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
btrfs-progs	4.15.1-1build1	GPL-2 GPL-2+ TLP-4
btrfs-tools	4.15.1-1build1	GPL-2 GPL-2+ TLP-4
build-essential	12.4ubuntu1	GPL
busybox	1:1.27.2-2ubuntu3.3	GPL-2
busybox-initramfs	1:1.27.2-2ubuntu3.2	GPL-2
bzip2	1.0.6-8.1	GPL-2
ca-certificates	20210119~18.04.2	GPL-2+ MPL-2.0
ca-certificates-mono	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
ccze	0.2.1-4	GPL-2 GPL-2+
cli-common	0.10xamarin5+ubuntu1804b1	GPL
command-not-found	18.04.2005	GPL
command-not-found-data	18.04.2005	GPL
console-setup	1.178ubuntu2.9	GPL-2

console-setup-linux	1.178ubuntu2.9	GPL-2
coreutils	8.28-1ubuntu1	GPL-3
cpio	2.12+dfsg-6	GPL-3
cpp	4:7.4.0-1ubuntu2.3	GPL
cpp-7	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
cpufrequtils	008-1build1	GPL-2
crda	3.18-1build1	ISC copyleft-next-0.3.0
cron	3.0pl1-128.1ubuntu1	Artistic GPL-2+ ISC Paul-Vixie's-license
curl	7.58.0-2ubuntu3.7	BSD-3-Clause BSD-4-Clause ISC curl other public-domain
dash	0.5.8-2.10	GPL
dbus	1.12.2-1ubuntu1.1	AFL-2.1 BSD-3-clause BSD-3-clause-generic Expat GPL-2+ GPL-2+ or AFL-2.1 GPL-2+ or AFL 2.1; Tcl-BSDish g10-permissive
debconf	1.5.66ubuntu1	BSD-2-clause
debconf-i18n	1.5.66ubuntu1	BSD-2-clause
debconf-utils	1.5.66ubuntu1	BSD-2-clause
debiutils	04.08.2004	GPL
device-tree-compiler	1.4.5-3	BSD-2-clause GPL-2+ GPL-2+ or BSD-2-clause LGPL-2.1+
devmem2	0.0-0ubuntu2	GPL-2
dh-python	3.20180325ubuntu2	Expat
dialog	1.3-20171209-1	LGPL-2.1
diffutils	06.01.2021 01:03	GFDL GPL
dirmngr	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
distro-info-data	0.37ubuntu0.5	ISC
dmsetup	2:1.02.145-4.1ubuntu3	GPL-2 LGPL-2.1
dnsutils	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
dosfstools	04.01.2001	GPL-3+ public-domain
dpkg	1.19.0.5ubuntu2.1	BSD-2-clause GPL-2 GPL-2+ public-domain-md5 public-domain-s-s-d
dpkg-dev	1.19.0.5ubuntu2.1	BSD-2-clause GPL-2 GPL-2+ public-domain-md5 public-domain-s-s-d
e2fsprogs	1.44.1-1ubuntu1.1	GPL-2 LGPL-2
eject	2.1.5+deb1+cvs20081104-13.2	GPL-2
ethtool	1:4.15-0ubuntu1	GPL-2
evtest	1:1.33-1build1	GPL-2.0+
expect	5.45.4-1	public domain
f2fs-tools	1.11.0-1.1~18.04	GPL-2 GPL-2+
f3	7.0-1	GPL-3 GPL-3 or GPL-3+ GPL-3+
fake-hwclock	0.11	GPL-2
fbset	02.01.1930	GPL-2
fdisk	2.31.1-0.4ubuntu3.3	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
ffmpeg	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
figlet	2.2.5-3	BSD-3-clause Expat GPL-2+ ISC Unicode WTFPL-2
file	1:5.32-2ubuntu0.2	BSD-2-Clause-alike BSD-2-Clause-netbsd BSD-2-Clause-regents MIT-Old-Style-with-legal-disclaimer-2 public-domain
findutils	4.6.0+git+20170828-2	GFDL-1.3 GPL-3
flex	2.6.4-6	FLEX FSFAP GPL GPL-2+ GPL-3+ LGPL-2+
fonts-dejavu-core	2.37-1	GPL-2+ bitstream-vera
fping	4.0-6	BSD-3-Clause-Stanford-Variant Unlicense
fsarchiver	0.8.4-1	GPL-2.0+
fuse	2.9.7-1ubuntu1	GPL-2 GPL-2+ LGPL-2
g++	4:7.4.0-1ubuntu2.3	GPL
g++-7	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
gamin	0.1.10-5build1	LGPL
gcc	4:7.4.0-1ubuntu2.3	GPL
gcc-7	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
gcc-7-base:armhf	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
gcc-8-base:armhf	8.3.0-6ubuntu1~18.04.1	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
gcc-avr	1:5.4.0+Atmel3.6.0-1build1	GPL GPL-3
gir1.2-glib-2.0:armhf	1.56.1-1	BSD-2-clause GPL-2+ LGPL-2+ MIT
git	1:2.17.1-1ubuntu0.4	Apache-2.0 BSD-2-clause Boost EDL-1.0 Expat GPL-1+ or Artistic-1 GPL-2 GPL-2+ ISC LGPL-2+ LGPL-2.1+ dlmalloc mingw-runtime
git-man	1:2.17.1-1ubuntu0.4	Apache-2.0 BSD-2-clause Boost EDL-1.0 Expat GPL-1+ or Artistic-1 GPL-2 GPL-2+ ISC LGPL-2+ LGPL-2.1+ dlmalloc mingw-runtime

gnupg	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gnupg-l10n	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gnupg-utils	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gnupg2	2.2.4-1ubuntu1.2	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gpg	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gpg-agent	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gpg-wks-client	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gpg-wks-server	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gpgconf	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gpgsm	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
gpgv	2.2.4-1ubuntu1.4	BSD-3-clause Expat GPL-3+ GPL-3+ or BSD-3-clause LGPL-2.1+ LGPL-3+ RFC-Reference TinySCHEME permissive
grep	03.01.2002	GPL-3+
groff-base	1.22.3-10	GFDL-1.3 GPL-3
gtk-update-icon-cache	3.22.30-1ubuntu4	Apache-2.0 Expat LGPL-2+ LGPL-2+ or SWL LGPL-2.1+ SWL other
gzip	1.6-5ubuntu1	GPL
haveged	1.9.1-6	GPL-3+ permissive-mconf permissive-nist public-domain
hdparm	9.54+ds-1	BSD-2-clause GPL-2+ GPL-2+ or BSD-2-clause hdparm
hicolor-icon-theme	0.17-2	GPL-2+
hostapd	3:2.7-99~armbian5.86+1	BSD-3-clause BSD-3-clause or GPL-2 GPL-2 ISC public-domain
hostname	Mrz 20	GPL-2
html2text	1.3.2a-21	GPL-2
htop	2.1.2-3	GPL-2+
humanity-icon-theme	0.6.15	GPL-2 GPL-3 LGPL-3
ifenslave	2.9ubuntu1	GPL-3+
ifplugd	0.28-19.2	GPL-2
iftop	1.0~pre4-4	BSD-2-clause BSD-3-clause BSD-like GPL-2+
ifupdown	0.8.17ubuntu1.1	GPL-2+
init	Jan 51	BSD-3-clause GPL-2+
init-system-helpers	Jan 51	BSD-3-clause GPL-2+
initramfs-tools	0.130ubuntu3.8	GPL-2
initramfs-tools-bin	0.130ubuntu3.8	GPL-2
initramfs-tools-core	0.130ubuntu3.8	GPL-2
iotop	0.6-2	GPL-2+
iperf3	3.1.3-1	BSD-3-clause GPL-2+ MIT MIT/X11 NCSA permissive public-domain
iproute2	4.15.0-2ubuntu1	GPL-2
iptables	1.6.1-2ubuntu2	Artistic-2 GPL-2 GPL-2+ custom
iputils-arping	3:20161105-1ubuntu2	GPL
iputils-ping	3:20161105-1ubuntu2	GPL
isc-dhcp-client	4.3.5-3ubuntu7.1	GPL-2 ISC
isc-dhcp-common	4.3.5-3ubuntu7.1	GPL-2 ISC
isc-dhcp-server	4.3.5-3ubuntu7.2	GPL-2 ISC
iso-codes	3.79-1	LGPL-2.1+
iw	4.14-0.1	ISC
jq	1.5+dfsg-2	Apache-2.0 CC-BY-3.0 Expat GPL-2.0+ MIT
kbd	2.0.4-2ubuntu1	GPL-2+ GPL-2-with-exceptions GPL-any
keyboard-configuration	1.178ubuntu2.9	GPL-2
klibc-utils	2.0.4-9ubuntu2	GPL-2
kmod	24-1ubuntu3.2	GPL-2 LGPL-2.1
less	487-0.1	GPL-3
libacl1:armhf	2.2.52-3build1	GPL LGPL-2.1
libapparmor1:armhf	2.12-4ubuntu5.1	BSD-3-clause BSD-3-clause or GPL-2+ GPL-2 GPL-2+ LGPL-2.1+
libapt-inst2.0:armhf	40695	GPL-2
libapt-pkg-perl	0.1.33build1	GPL
libapt-pkg5.0:armhf	1.6.12ubuntu0.2	GPL-2
libargon2-0:armhf	0~20161029-1.1	Apache-2.0 CCO CCO or Apache-2.0
libasan4:armhf	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL

libasn1-8-heimdal:armhf	7.5.0+dfsg-1	BSD-3-clause GPL-2+ custom none
libasound2:armhf	1.1.3-5ubuntu0.2	LPGL-2.1+
libasound2-data	1.1.3-5ubuntu0.2	LPGL-2.1+
libass9:armhf	1:0.14.0-1	GPL-2+ ISC other-1
libassuan0:armhf	2.5.1-2	GAP GAP~FSF GPL-2+ GPL-2+ with libtool exception GPL-3+ LGPL-2.1+ LGPL-3+
libasyns0:armhf	0.8-6	LGPL-2.1+
libatk1.0-0:armhf	2.28.1-1	LGPL-2
libatk1.0-data	2.28.1-1	LGPL-2
libatm1:armhf	1:2.5.1-2build1	GPL-2
libatomic1:armhf	8.3.0-6ubuntu1~18.04.1	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libattr1:armhf	1:2.4.47-2build1	GPL-2 LGPL-2.1
libaudit-common	1:2.8.2-1ubuntu1	GPL-2 LGPL-2.1
libaudit1:armhf	1:2.8.2-1ubuntu1	GPL-2 LGPL-2.1
libav-tools	37349,29375	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
libavahi-client3:armhf	0.7-3.1ubuntu1.2	GPL GPL-2 LGPL-2.1
libavahi-common-data:armhf	0.7-3.1ubuntu1.2	GPL GPL-2 LGPL-2.1
libavahi-common3:armhf	0.7-3.1ubuntu1.2	GPL GPL-2 LGPL-2.1
libavahi-core7:armhf	0.7-3.1ubuntu1.2	GPL GPL-2 LGPL-2.1
libavc1394-0:armhf	0.5.4-4build1	GPL-2+ LGPL-2.1+
libavcodec57:armhf	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
libavdevice57:armhf	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
libavfilter6:armhf	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
libavformat57:armhf	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
libavresample3:armhf	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
libavutil55:armhf	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
libbind9-160:armhf	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
libbinutils:armhf	2.30-21ubuntu1~18.04.2	GFDL GPL LGPL
libbison-dev:armhf	2:3.0.4.dfsg-1build1	GPL-2+ GPL-3+
libblas3:armhf	3.7.1-4ubuntu1	BSD-3-clause BSD-3-clause-intel
libblkid1:armhf	2.31.1-0.4ubuntu3.3	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
libbluetooth-dev	5.48-0ubuntu3.4	GFDL GPL-2 LGPL-2.1
libbluetooth3:armhf	5.48-0ubuntu3.4	GFDL GPL-2 LGPL-2.1
libbluray2:armhf	1:1.0.2-3	BSD-3-clause GPL-2+ LGPL-2.1+ MPL-1.0 MPL-1.0 or GPL-2+ or LGPL-2.1+ custom
libboost-filesystem1.65.1:armhf	1.65.1+dfsg-0ubuntu5	Boost bjam boostbook
libboost-iostreams1.65.1:armhf	1.65.1+dfsg-0ubuntu5	Boost bjam boostbook
libboost-system1.65.1:armhf	1.65.1+dfsg-0ubuntu5	Boost bjam boostbook
libbs2b0:armhf	3.1.0+dfsg-2.2	FSF-unlimited GPL-2+ GPL-3+ MIT MIT+FSF-public
libbsd0:armhf	0.8.7-1	BSD-2-clause BSD-2-clause-NetBSD BSD-2-clause-author 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 Beerware Expat ISC ISC-Original public-domain public-domain-Colin-Plumb
libbz2-1.0:armhf	1.0.6-8.1	GPL-2
libc-bin	2.27-3ubuntu1	GPL-2 LGPL-2.1
libc-dev-bin	2.27-3ubuntu1.2	GPL-2 LGPL-2.1
libc6:armhf	2.27-3ubuntu1.2	GPL-2 LGPL-2.1

libc6-dev:armhf	2.27-3ubuntu1.2	GPL-2 LGPL-2.1
libcaca0:armhf	0.99.beta19-2ubuntu0.18.04.1	LGPL
libcairo2:armhf	1.15.10-2ubuntu0.1	LGPL-2.1
libcap-ng0:armhf	0.7.7-3.1	GPL-2 GPL-3 LGPL-2.1
libcap2:armhf	25.01.2002 01:02	BSD-3-clause BSD-3-clause or GPL-2 BSD-3-clause or GPL-2+ GPL-2 GPL-2+
libcap2-bin	37281,04306	BSD-3-clause BSD-3-clause or GPL-2 BSD-3-clause or GPL-2+ GPL-2 GPL-2+
libcc1-0:armhf	8.3.0-6ubuntu1~18.04.1	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libcddio-cdda2:armhf	10.2+0.94+2-2build1	GFDL GPL
libcddio-paranoia2:armhf	10.2+0.94+2-2build1	GFDL GPL
libcddio17:armhf	1.0.0-2ubuntu2	GFDL GPL
libchromaprint1:armhf	1.4.3-1	BSD-3-clause Expat LGPL-2.1+
libcilkrt5:armhf	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libcomerr2:armhf	1.44.1-1ubuntu1.1	GPL-2 LGPL-2
libcpufreq0	008-1build1	GPL-2
libcroc03:armhf	0.6.12-2	LGPL
libcryptsetup12:armhf	2.2.0.2-1ubuntu1.1	Apache-2.0 CC0 CC0 or Apache-2.0 GPL-2+ LGPL-2.1+ public-domain
libcups2:armhf	2.2.7-1ubuntu2.8	BSD-2-clause GPL-2.0 with AOSDL exception LGPL-2.0 with AOSDL exception Zlib
libcurl3-gnutls:armhf	7.58.0-2ubuntu3.7	BSD-3-Clause BSD-4-Clause ISC curl other public-domain
libcurl4:armhf	7.58.0-2ubuntu3.7	BSD-3-Clause BSD-4-Clause ISC curl other public-domain
libcwidget3v5:armhf	0.5.17-7	GPL-2+
libdaemon0:armhf	0.14-6	GPL-2 LGPL
libdatrie1:armhf	0.2.10-7	GPL-2+ LGPL-2.1+
libdbus-1-3:armhf	1.12.2-1ubuntu1.1	AFL-2.1 BSD-3-clause BSD-3-clause-generic Expat GPL-2+ GPL-2+ or AFL-2.1 GPL-2+ or AFL-2.1; Tcl-BSDish g10-permissive
libdc1394-22:armhf	2.2.5-1	GPL-2 LGPL-2.1
libdebconfclient0:armhf	0.213ubuntu1	public domain
libdevmapper1.02.1:armhf	2:1.02.145-4.1ubuntu3	GPL-2 LGPL-2.1
libdigest-sha-perl	36897	Artistic Artistic or GPL-1+ GPL-1+
libdns-export1100	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
libdns1100:armhf	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
libdpkg-perl	1.19.0.5ubuntu2.1	BSD-2-clause GPL-2 GPL-2+ public-domain-md5 public-domain-s-s-d
libegl-mesa0:armhf	20.0.8-0ubuntu1~18.04.1	Apache-2.0 BSD-2-clause BSD-3-google BSL GPL Khronos MIT MLAA SGI
libegl1:armhf	1.0.0-2ubuntu2.3	BSD-1-clause GPL-3+ MIT public-domain
libegl1-mesa:armhf	20.0.8-0ubuntu1~18.04.1	Apache-2.0 BSD-2-clause BSD-3-google BSL GPL Khronos MIT MLAA SGI
libelf1:armhf	0.170-0.4ubuntu0.1	GPL-2 GPL-3 LGPL
liberror-perl	0.17025-1	Artistic Artistic or GPL-1+ GPL-1+ MIT/X11
libestr0:armhf	0.1.10-2.1	LGPL-2.1
libevent-2.1-6:armhf	2.1.8-stable-4build1	BSD license
libexif12:armhf	0.6.21-4ubuntu0.6	BSD-2-Clause GPL-2+ LGPL-2.1+
libexpat1:armhf	2.2.5-3ubuntu0.2	MIT
libexpat1-dev:armhf	2.2.5-3ubuntu0.2	MIT
libext2fs2:armhf	1.44.1-1ubuntu1.1	GPL-2 LGPL-2
libf2fs-format4:armhf	1.11.0-1.1~18.04	GPL-2 GPL-2+
libf2fs5:armhf	1.11.0-1.1~18.04	GPL-2 GPL-2+
libfastjson4:armhf	0.99.8-2	Apache-2.0 Expat
libfdisk1:armhf	2.31.1-0.4ubuntu3.3	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
libffi6:armhf	3.2.1-8	GPL
libfftw3-double3:armhf	3.3.7-1	GPL-2
libfftw3-single3:armhf	3.3.7-1	GPL-2
libflac8:armhf	1.3.2-1	BSD-3-clause GFDL-1.1+ GPL-2+ GPL-2+ or LGPL-2.1+ ISC LGPL-2+ LGPL-2.1+ Public-domain
libflite1:armhf	2.1-release-1	GPL-2 GPL-3
libfreetype6:armhf	2.8.1-2ubuntu2.1	BSD-2-Clause BSD-3-Clause Catharon-OSL FTL GPL-2+ GPL-2+ or FTL GZip OpenGroup-BSD like
libfribidi0:armhf	0.19.7-2	LGPL-2.1+
libftdi1:armhf	0.20-4build3	LGPL-2.1
libfuse2:armhf	2.9.7-1ubuntu1	GPL-2 GPL-2+ LGPL-2
libgamin0	0.1.10-5build1	LGPL
libgbm1:armhf	20.0.8-0ubuntu1~18.04.1	Apache-2.0 BSD-2-clause BSD-3-google BSL GPL Khronos MIT MLAA SGI
libgcc-7-dev:armhf	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libgcc1:armhf	1:8.3.0-6ubuntu1~18.04.1	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libgcrypt20:armhf	1.8.1-4ubuntu1.1	GPL-2 LGPL

libgdbm-compat4:armhf	1.14.1-6	GFDL-1.3+ GPL-3+
libgdbm5:armhf	1.14.1-6	GFDL-1.3+ GPL-3+
libgdk-pixbuf2.0-0:armhf	2.36.11-2	GPL-2+ LGPL-2+ MPL-1.1-or-LGPL-2+
libgdk-pixbuf2.0-common	2.36.11-2	GPL-2+ LGPL-2+ MPL-1.1-or-LGPL-2+
libgeoip1:armhf	1.6.12-1	ISC LGPL-2.1+
libgfortran4:armhf	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libgif7:armhf	5.1.4-2ubuntu0.1	MIT
libgirepository-1.0-1:armhf	1.56.1-1	BSD-2-clause GPL-2+ LGPL-2+ MIT
libgl1:armhf	1.0.0-2ubuntu2.3	BSD-1-clause GPL-3+ MIT public-domain
libgl1-mesa-dri:armhf	20.0.8-0ubuntu1~18.04.1	Apache-2.0 BSD-2-clause BSD-3-google BSL GPL Khronos MIT MLLAA SGI
libglade2-0:armhf	37352,04306	LGPL
libglade2.0-cil	2.12.45-0xamarin19+ubuntu1804b1	LGPL-2.1
libglapi-mesa:armhf	20.0.8-0ubuntu1~18.04.1	Apache-2.0 BSD-2-clause BSD-3-google BSL GPL Khronos MIT MLLAA SGI
libglib2.0-0:armhf	2.56.4-0ubuntu0.18.04.8	LGPL
libglib2.0-cil	2.12.45-0xamarin19+ubuntu1804b1	LGPL-2.1
libglib2.0-data	2.56.4-0ubuntu0.18.04.3	LGPL
libglvnd0:armhf	1.0.0-2ubuntu2.3	BSD-1-clause GPL-3+ MIT public-domain
libglx-mesa0:armhf	20.0.8-0ubuntu1~18.04.1	Apache-2.0 BSD-2-clause BSD-3-google BSL GPL Khronos MIT MLLAA SGI
libglx0:armhf	1.0.0-2ubuntu2.3	BSD-1-clause GPL-3+ MIT public-domain
libgme0:armhf	0.6.2-1	LGPL-2.1
libgmp10:armhf	2:6.1.2+dfsg-2	GPL GPL-2 GPL-3 LGPL-3
libgnutls30:armhf	3.5.18-1ubuntu1.1	GFDL-1.3 GPL GPL-3 LGPL LGPL-3
libgomp1:armhf	8.3.0-6ubuntu1~18.04.1	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libgpg-error0:armhf	1.27-6	BSD-3-clause GPL-3+ LGPL-2.1+ LGPL-2.1+ or BSD-3-clause g10-permissive
libgpm2:armhf	1.20.7-5	GPL-2.0+ GPL-3.0+
libgraphite2-3:armhf	1.3.11-2	Artistic Artistic or GPL-1+ 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 custom-sil-open-font-license public-domain
libgssapi-krb5-2:armhf	1.16-2ubuntu0.1	GPL-2
libgssapi3-heimdal:armhf	7.5.0+dfsg-1	BSD-3-clause GPL-2+ custom none
libgtk2.0-0:armhf	2.24.32-1ubuntu1	LGPL-2
libgtk2.0-cil	2.12.45-0xamarin19+ubuntu1804b1	LGPL-2.1
libgtk2.0-common	2.24.32-1ubuntu1	LGPL-2
libharfbuzz0b:armhf	1.7.2-1ubuntu1	MIT
libhavege1:armhf	1.9.1-6	GPL-3+ permissive-mconf permissive-nist public-domain
libhcrypto4-heimdal:armhf	7.5.0+dfsg-1	BSD-3-clause GPL-2+ custom none
libheimbase1-heimdal:armhf	7.5.0+dfsg-1	BSD-3-clause GPL-2+ custom none
libheimntlm0-heimdal:armhf	7.5.0+dfsg-1	BSD-3-clause GPL-2+ custom none
libhogweed4:armhf	36984	GAP GPL-2 GPL-2+ GPL-2+ with Autoconf exception LGPL-2+ LGPL-2.1+ other public-domain
libhx509-5-heimdal:armhf	7.5.0+dfsg-1	BSD-3-clause GPL-2+ custom none
libidn11:armhf	1.33-2.1ubuntu1.2	GAP GFDL-1.3+ GPL-3+ LGPL-2.1+ LGPL-3+ or GPL-2+
libidn2-0:armhf	2.0.4-1.1build2	GPL-2+ GPL-3+ LGPL-3+ LGPL-3+ or GPL-2+ Unicode
libiec61883-0:armhf	1.2.0-2	LGPL
libip4tc0:armhf	1.6.1-2ubuntu2	Artistic-2 GPL-2 GPL-2+ custom
libip6tc0:armhf	1.6.1-2ubuntu2	Artistic-2 GPL-2 GPL-2+ custom
libiperf0:armhf	3.1.3-1	BSD-3-clause GPL-2+ MIT MIT/X11 NCSA permissive public-domain
libiptc0:armhf	1.6.1-2ubuntu2	Artistic-2 GPL-2 GPL-2+ custom
libirs-export160	1:9.11.3+dfsg-1ubuntu1.15	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
libirs160:armhf	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
libisc-export169:armhf	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
libisc169:armhf	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC

libisccc160:armhf	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
libisccfg-export160	1:9.11.3+dfsg-1ubuntu1.15	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
libisccfg160:armhf	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
libisl19:armhf	0.19-1	BSD-2-clause LGPL-2.1+ MIT
libiw30:armhf	30~pre9-12ubuntu1	GPL-2 LGPL-2.1
libjack-jackd2-0:armhf	1.9.12~dfsg-2	BSD-3-clause Expat Expat~modrequest GPL-2 GPL-2+ GPL-2~either GPL-2~jack-audio-connection-kit GPL-2~jackd2 GPL-2~or GPL-3+ LGPL-2+ LGPL-2.1+ None public-domain~Kroon
libjansson4:armhf	02.11.2001	Expat
libjbig0:armhf	2.1-3.1build1	GPL-2+
libjpeg-turbo8:armhf	1.5.2-0ubuntu5.18.04.4	LGPL-2.1
libjpeg8:armhf	8c-2ubuntu8	LGPL-2.1
libjq1:armhf	1.5+dfsg-2	Apache-2.0 CC-BY-3.0 Expat GPL-2.0+ MIT
libjson-c3:armhf	0.12.1-1.3	MIT
libk5crypto3:armhf	1.16-2ubuntu0.1	GPL-2
libkeyutils1:armhf	1.5.9-9.2ubuntu2	GPL-2+ LGPL-2+
libklibc	2.0.4-9ubuntu2	GPL-2
libkmod2:armhf	24-1ubuntu3.2	GPL-2 LGPL-2.1
libkrb5-26-heimdal:armhf	7.5.0+dfsg-1	BSD-3-clause GPL-2+ custom none
libkrb5-3:armhf	1.16-2ubuntu0.1	GPL-2
libkrb5support0:armhf	1.16-2ubuntu0.1	GPL-2
libksba8:armhf	1.3.5-2	GPL-3
liblapack3:armhf	3.7.1-4ubuntu1	BSD-3-clause BSD-3-clause-intel
liblcms2-2:armhf	2.9-1ubuntu0.1	GPL-2+ MIT
libllvm10:armhf	1:10.0.0-4ubuntu1~18.04.2	APACHE-2-LLVM-EXCEPTIONS BSD-3-Clause BSD-3-clause MIT Python solar-public-domain
liblocale-gettext-perl	1.07-3build2	Artistic Artistic or GPL-1+ GPL-1+
liblockfile-bin	1.14-1.1	GPL-2+ LGPL-2+
liblockfile1:armhf	1.14-1.1	GPL-2+ LGPL-2+
liblwres160:armhf	1:9.11.3+dfsg-1ubuntu1.7	BSD-2-clause BSD-3-clause BSD-4-clause ISC ISC or MPL-2.0 MPL-2.0 MPL-2.0 or ISC
liblz4-1:armhf	0.0~r131-2ubuntu3	BSD-2-clause GPL-2+
liblzma5:armhf	5.2.2-1.3	Autoconf GPL-2 GPL-2+ LGPL-2.1+ PD PD-debian config-h noderivs none permissive-fsf permissive-nowarranty probably-PD
liblzo2-2:armhf	2.08-1.2	GPL-2
libmagic-mgc	1:5.32-2ubuntu0.2	BSD-2-Clause-alike BSD-2-Clause-netbsd BSD-2-Clause-regents MIT-Old-Style-with-legal-disclaimer-2 public-domain
libmagic1:armhf	1:5.32-2ubuntu0.2	BSD-2-Clause-alike BSD-2-Clause-netbsd BSD-2-Clause-regents MIT-Old-Style-with-legal-disclaimer-2 public-domain
libmm-glib0:armhf	1.10.0-1~ubuntu18.04.2	GPL-2.0 GPL-2.0+ GPL-3.0+ LGPL-2.0+
libmng2:armhf	2.0.2-0ubuntu3	BSD
libmn10:armhf	1.0.4-2	GPL-2+ LGPL-2.1
libmono-2.0-1	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-2.0-dev	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-accessibility4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-cairo4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-cecil-private-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-cil-dev	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-codecontracts4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-compilerservices-symbolwriter4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-corlib4.5-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-cscmpmgd0.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1

libmono-csharp4.0c-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-custommarshalers4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-data-tds4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-db2-1.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-debugger-soft4.0a-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-http4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-i18n-cjk4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-i18n-mideast4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-i18n-other4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-i18n-rare4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-i18n-west4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-i18n4.0-all	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-i18n4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-ldap4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-management4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-messaging-rabbitmq4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-messaging4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-microsoft-build-engine4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-microsoft-build-framework4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-microsoft-build-tasks-v4.0-4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-microsoft-build-utilities-v4.0-4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-microsoft-build4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-microsoft-csharp4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-microsoft-visualc10.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-microsoft-web-infrastructure1.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-oracle4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-parallel4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-peapi4.0a-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-posix4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-profiler	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-rabbitmq4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0
libmono-relaxng4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-security4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1

libmono-sharpzip4.84-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-simd4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-smdiagnosics0.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-sqlite4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-componentmodel-composition4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-componentmodel-dataannotations4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-configuration-install4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-configuration4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-core4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-data-datasetextensions4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-data-entity4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-data-linq4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-data-services-client4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-data-services4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-data4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-deployment4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-design4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-drawing-design4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-drawing4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-dynamic4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-enterpriseservices4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-identitymodel-selectors4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-identitymodel4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-io-compression-filesystem4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-io-compression4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-json-microsoft4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-json4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-ldap-protocols4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-ldap4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-management4.0-cil	6.12.0.122- Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1

libmono-system-messaging4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-net-http-formatting4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-net-http-webrequest4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-net-http4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-net4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-numeric-vectors4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-numeric4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-core2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-debugger2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-experimental2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-interfaces2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-linq2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-observable-aliases0.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-platformservices2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-providers2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-runtime-remoting2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-windows-forms2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reactive-windows-threading2.2-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-reflection-context4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-runtime-caching4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-runtime-durableinstantancing4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-runtime-serialization-formatters-soap4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-runtime-serialization4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-runtime4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-security4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-servicemodel-activation4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-servicemodel-discovery4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1

libmono-system-servicemodel-internals0.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-servicemodel-routing4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-servicemodel-web4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-servicemodel4.0a-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-serviceprocess4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-threading-tasks-dataflow4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-transactions4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-abstractions4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-applicationservices4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-dynamicdata4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-extensions-design4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-extensions4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-http-selfhost4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-http-webhost4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-http4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-mobile4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-mvc3.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-razor2.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-regularexpressions4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-routing4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-services4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-webpages-deployment2.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-webpages-razor2.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web-webpages2.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-web4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-windows-forms-datavisualization4.0a-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-windows-forms4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-windows4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-workflow-activities4.0-cil	6.12.0.122-Oxamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1

libmono-system-workflow-componentmodel4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-workflow-runtime4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-xaml4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-xml-linq4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-xml-serialization4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system-xml4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-system4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-tasklets4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-webbrowser4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-webmatrix-data4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-windowsbase4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmono-xbuild-tasks4.0-cil	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmonoboehm-2.0-1	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmonosgen-2.0-1	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmonosgen-2.0-dev	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
libmount1:armhf	2.31.1-0.4ubuntu3.3	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
libmp3lame0:armhf	3.100-2	BSD-3-clause GPL-1+ LGPL-2+ LGPL-2.1+ zlib/libpng
libmpc3:armhf	1.1.0-1	LGPL-2.1
libmpdec2:armhf	2.4.2-1ubuntu1	BSD GPL-2+
libmpfr6:armhf	4.0.1-1	GFDL-1.2 LGPL-3
libmpeg123-0:armhf	1.25.10-1	LGPL-2.1
libmysofa0:armhf	0.6~dfsg0-3+deb10u1build1	BSD-3-clause CC-BY-4.0 CC-BY-SA-3.0 cipc listen-ircam mit-kemar
libndp0:armhf	37043	LGPL-2.1+
libnetfilter-contrack3:armhf	1.0.6-2	GPL-2+
libnettle6:armhf	36984	GAP GPL-2 GPL-2+ GPL-2+ with Autoconf exception LGPL-2+ LGPL-2.1+ other public-domain
libnewt0.52:armhf	0.52.20-1ubuntu1	LGPL-2
libnfnlink0:armhf	1.0.1-3	GPL
libnghttp2-14:armhf	1.30.0-1ubuntu1	BSD-2-clause Expat GPL-3+ with autoconf exception MIT SIL-OFL-1.1 all-permissive
libnl-3-200:armhf	3.2.29-0ubuntu3	GPL-2 LGPL-2.1
libnl-3-dev:armhf	3.2.29-0ubuntu3	GPL-2 LGPL-2.1
libnl-genl-3-200:armhf	3.2.29-0ubuntu3	GPL-2 LGPL-2.1
libnl-genl-3-dev:armhf	3.2.29-0ubuntu3	GPL-2 LGPL-2.1
libnl-route-3-200:armhf	3.2.29-0ubuntu3	GPL-2 LGPL-2.1
libnm0:armhf	1.10.6-2ubuntu1.1	GFDL-NIV-1.1+ GPL-2+ LGPL-2+ LGPL-2.1+
libnorm1:armhf	1.5r6+dfsg1-6	BSD-2-clause BSD-3-clause BSD-4-clause-UC NRL-2-clause NRL-3-clause
libnpt0:armhf	01.05.2003	LGPL-2.1+
libnss-myhostname:armhf	237-3ubuntu10.22	CC0-1.0 Expat GPL-2 GPL-2+ LGPL-2.1+ public-domain
libnss-systemd:armhf	237-3ubuntu10.52	CC0-1.0 Expat GPL-2 GPL-2+ LGPL-2.1+ public-domain
libntfs-3g88	1:2017.3.23-2ubuntu0.18.04.2	GPL-2+ LGPL-2+
libonig4:armhf	6.7.0-1	BSD-2-clause GPL-2+
libopenal-data	18.02.2002 01:01	Apache BSD-3-clause-cmake Expat GPL-2+ GPL-3+ LGPL-2+ LGPL-2.1+
libopenal1:armhf	37305,04236	Apache BSD-3-clause-cmake Expat GPL-2+ GPL-3+ LGPL-2+ LGPL-2.1+
libopenjp2-7:armhf	2.3.0-2build0.18.04.1	BSD-2 BSD-3 LIBPNG LIBTIFF LIBTIFF-GLARSON LIBTIFF-PIXAR MIT ZLIB public-domain

libopenmp0:armhf	0.3.6-1	BSD-3-clause GNU-All-Permissive-License GNU-All-Permissive-License-FSF GPL-2+ with Autoconf exception GPL-2+ with LibTool exception GPL-3+ with AutoConf exception GPL-3+ with Autoconf Macros exception X11
libopenzwave1.3	1.4.3021-release~bionic	AESBSD Apache-2.0 GPL-3 HIDAPI HIDAPI or GPL-3 or OZBSD or OriginalHIDAPI LGPL-3+ OZBSD OriginalHIDAPI TINY
libopts25:armhf	38339,04514	GPL-2+ GPL-2+ or LGPL-3+ or Modified_BSD GPL-3+ GPL-3+. LGPL-2.1+ LGPL-3+ LGPL-3+ or Modified_BSD Modified_BSD
libow-3.1-5:armhf	3.1p5-2	Artistic Artistic or GPL-1+ BSD-2-Clauses Expat GPL-1+ GPL-2 GPL-2 or Expat LGPL-2 TINL-2 other-Apple other-MIT
libownet-2.8-15:armhf	2.8p15-1	GPL LGPL
libownet-3.1-5:armhf	3.1p5-2	Artistic Artistic or GPL-1+ BSD-2-Clauses Expat GPL-1+ GPL-2 GPL-2 or Expat LGPL-2 TINL-2 other-Apple other-MIT
libp11-kit0:armhf	0.23.9-2	BSD-3-Clause ISC ISC+IBM permissive-like-automake-output same-as-rest-of-p11kit
libpam-cap:armhf	37281,04306	BSD-3-clause BSD-3-clause or GPL-2 BSD-3-clause or GPL-2+ GPL-2 GPL-2+
libpam-modules:armhf	1.1.8-3.6ubuntu2.18.04.1	GPL
libpam-modules-bin	1.1.8-3.6ubuntu2.18.04.1	GPL
libpam-runtime	1.1.8-3.6ubuntu2.18.04.1	GPL
libpam-systemd:armhf	237-3ubuntu10.52	CC0-1.0 Expat GPL-2 GPL-2+ LGPL-2.1+ public-domain
libpam0g:armhf	1.1.8-3.6ubuntu2.18.04.1	GPL
libpango-1.0-0:armhf	1.40.14-1ubuntu0.1	LGPL-2 LGPL-2.1
libpangocairo-1.0-0:armhf	1.40.14-1ubuntu0.1	LGPL-2 LGPL-2.1
libpangoft2-1.0-0:armhf	1.40.14-1ubuntu0.1	LGPL-2 LGPL-2.1
libparted2:armhf	3.2-20ubuntu0.2	GPL-3
libpcap0.8:armhf	1.8.1-6ubuntu1.18.04.2	BSD license
libpcre3:armhf	2:8.39-9	BSD" LICENCE "BSD" License"
libpcsclite1:armhf	1.8.23-1	BSD-3-clause Expat GPL-3+ ISC
libperl5.26:armhf	5.26.1-6ubuntu0.3	Artistic Artistic or GPL-1+ or Artistic-dist Artistic-2 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 or Artistic-dist GPL-1+ or Artistic; 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
libpgm-5.2-0:armhf	5.2.122~dfsg-2	BSD-3-clause ISC LGPL-2+ LGPL-2.1
libpipeline1:armhf	1.5.0-1	GPL-2+ GPL-3+
libpixman-1-0:armhf	0.34.0-2	MIT license
libpng16-16:armhf	1.6.34-1ubuntu0.18.04.2	Apache-2.0 BSD-3-clause BSD-like-with-advertising-clause GPL-2+ GPL-2+ or BSD-like-with-advertising-clause expat libpng libpng OR Apache-2.0 OR BSD-3-clause
libpolkit-agent-1-0:armhf	0.105-20ubuntu0.18.04.5	Apache-2.0 LGPL-2.0+
libpolkit-backend-1-0:armhf	0.105-20ubuntu0.18.04.5	Apache-2.0 LGPL-2.0+
libpolkit-gobject-1-0:armhf	0.105-20ubuntu0.18.04.5	Apache-2.0 LGPL-2.0+
libpopt0:armhf	1.16-11	GPL-2+ X-Consortium
libpostproc54:armhf	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
libproc-processtable-perl	0.55-1	Artistic Artistic or GPL-1+ GPL-1+ GPL-2 other
libprocps6:armhf	2:3.3.12-3ubuntu1.1	GPL-2.0+ LGPL-2.0+ LGPL-2.1+
libpsl5:armhf	0.19.1-5build1	Chromium MIT
libpulse0:armhf	1:11.1-1ubuntu7.11	GPL-2 LGPL-2 LGPL-2.1
libpython-stdlib:armhf	2.7.15~rc1-1	GPL-compatible GPL-compatible licenses
libpython2.7-minimal:armhf	2.7.17-1~18.04ubuntu1.2	Apache-2.0 GPL-2
libpython2.7-stdlib:armhf	2.7.17-1~18.04ubuntu1.2	Apache-2.0 GPL-2
libpython3-dev:armhf	3.6.7-1~18.04	GPL-compatible GPL-compatible licenses
libpython3-stdlib:armhf	3.6.7-1~18.04	GPL-compatible GPL-compatible licenses
libpython3.6:armhf	3.6.9-1~18.04ubuntu1.3	GPL-2
libpython3.6-dev:armhf	3.6.9-1~18.04ubuntu1.3	GPL-2
libpython3.6-minimal:armhf	3.6.9-1~18.04ubuntu1.3	GPL-2

libpython3.6-stdlib:armhf	3.6.9-1~18.04ubuntu1.3	GPL-2
libqca2:armhf	2.1.3-2ubuntu2	BSD-2-clause BSD-3-clause Expat LGPL-2.1+ LGPL-2.1+ or Zlib Permissive Zlib
libqca2-plugin-openssl:armhf	2.1.3-1ubuntu1	BSD-2-clause BSD-3-clause Expat LGPL-2.1+ LGPL-2.1+ or Zlib Permissive Zlib
libqca2-plugins:armhf	2.1.3-2ubuntu2	BSD-2-clause BSD-3-clause Expat LGPL-2.1+ LGPL-2.1+ or Zlib Permissive Zlib
libqrencode3:armhf	3.4.4-1build1	LGPL-2.1+ public-domain
libqt4-declarative:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqt4-designer:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqt4-dev-bin	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqt4-network:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqt4-qt3support:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqt4-script:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqt4-sql:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqt4-xml:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqt4-xmlpatterns:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqtcore4:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqtdbus4:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libqtgui4:armhf	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
libraw1394-11:armhf	2.1.2-1	GPL LGPL
libreadline7:armhf	7.0-3	GFDL GPL-3
libroken18-heimdal:armhf	7.5.0+dfsg-1	BSD-3-clause GPL-2+ custom none
librsvg2-2:armhf	2.40.20-2ubuntu0.2	GPL-2+ LGPL-2+
librsvg2-common:armhf	2.40.20-2ubuntu0.2	GPL-2+ LGPL-2+
librtmp1:armhf	2.4+20151223.gitfa8646d.1-1	GPL-2 LGPL-2.1
librubberband2:armhf	1.8.1-7ubuntu2	GPL-2+ other-1 other-bsd-3-clause-kissft other-bsd-3-clause-speex other-bsd-4-clause-1 other-bsd-4-clause-2 zlib
libsamplerate0:armhf	0.1.9-1	BSD-2-clause GPL-2+
libsasl2-2:armhf	2.1.27~101-g0780600+dfsg-3ubuntu2	BSD-4-clause GPL-3+
libsasl2-modules-db:armhf	2.1.27~101-g0780600+dfsg-3ubuntu2	BSD-4-clause GPL-3+
libSDL2-2.0-0:armhf	2.0.8+dfsg1-1ubuntu1.18.04.4	BSD-3-clause BSD-3-clause-chromium BrownUn_UnCalifornia_ErikCorry Expat-like Gareth_McCaughan LGPL-2.1+ MIT/X11 PublicDomain_David_Ludwig PublicDomain_Edgar_Simo PublicDomain_Sam_Lantinga RSA_Data_Security SGI-Free-Software-License-B SunPro zlib/libpng
libseccomp2:armhf	2.4.1-0ubuntu0.18.04.2	LGPL-2.0+
libselinux1:armhf	2.7-2build2	GPL-2 LGPL-2.1
libsemanage-common	2.7-2build2	GPL LGPL
libsemanage1:armhf	2.7-2build2	GPL LGPL
libsensors4:armhf	1:3.4.0-4	GPL GPL-2
libsepol1:armhf	37074	GPL LGPL
libshine3:armhf	3.1.1-1	GPL-2+ LGPL-2
libsigc++-2.0-0v5:armhf	2.10.0-2	LGPL-2.1
libsigsegv2:armhf	37227	GPL-2+ GPL-2+ with Autoconf exception permissive-fs permissive-other
libslang2:armhf	2.3.1a-3ubuntu1	GPL-2+
libsmartcols1:armhf	2.31.1-0.4ubuntu3.3	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
libsndfile1:armhf	1.0.28-4ubuntu0.18.04.1	Apache-2.0 BSD-3-clause FSFAP GPL-2+ LGPL-2+ LGPL-2.1+ gsm sun
libsndio6.1:armhf	1.1.0-3	ISC ISC-packaging
libsodium23:armhf	1.0.16-2	BSD-2-clause CC0 GPL-2+ ISC MIT public-domain
libsoxr0:armhf	0.1.2-3	BSD-3-clause LGPL-2.1+ Spheredpack permissive1 permissive2
libsqlite3-0:armhf	3.22.0-1ubuntu0.1	GPL-2+ public-domain
libssh-gcrypt-4:armhf	0.8.0~20170825.94fa1e38-1ubuntu0.7	BSD-2-clause BSD-3-clause LGPL-2.1 LGPL-2.1+~OpenSSL LGPL-2.1+~OpenSSL or BSD-2-clause or BSD-3-clause public-domain
libssh2-1:armhf	1.8.0-1	BSD3
libssl-dev:armhf	1.1.1-1ubuntu2.1~18.04.2	BSD-style
libssl1.0.0:armhf	1.0.2n-1ubuntu5.3	BSD-style
libssl1.1:armhf	1.1.1-1ubuntu2.1~18.04.2	BSD-style
libstdc++-7-dev:armhf	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libstdc++6:armhf	8.3.0-6ubuntu1~18.04.1	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libswresample2:armhf	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain

libswscale4:armhf	7:3.4.8-0ubuntu0.2	BSD-1-clause BSD-2-clause BSD-3-clause BSL Expat FSF GPL-2+ GPL-2+ with Avisynth exception GPL-3+ IJG ISC LGPL-2+ LGPL-2.1+ Sundry Zlib man-page public-domain
libsysfs2:armhf	2.1.0+repack-4build1	GPL LGPL
libsystemd0:armhf	237-3ubuntu10.52	CC0-1.0 Expat GPL-2 GPL-2+ LGPL-2.1+ public-domain
libtasn1-6:armhf	4.13-2	GFDL-1.3 GPL-3 LGPL LGPL-2.1
libteamdctl0:armhf	1.26-1	BSD-3-clause BSD-3-clause or GPL-2 GPL-2 LGPL-2.1+
libtext-charwidth-perl	0.04-7.1	Artistic GPL-2
libtext-iconv-perl	1.7-5build6	Artistic GPL-2
libtext-wrapi18n-perl	0.06-7.1	Artistic GPL
libthai-data	0.1.27-2	GPL-2+ LGPL-2.1+
libthai0:armhf	0.1.27-2	GPL-2+ LGPL-2.1+
libtiff5:armhf	4.0.9-5ubuntu0.3	Hylafax
libtwolame0:armhf	0.3.13-3	LGPL-2+
libubsan0:armhf	7.5.0-3ubuntu1~18.04	Artistic GFDL-1.2 GPL GPL-2 GPL-3 LGPL
libudev1:armhf	237-3ubuntu10.44	CC0-1.0 Expat GPL-2 GPL-2+ LGPL-2.1+ public-domain
libunistring2:armhf	0.9.9-0ubuntu2	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
libusb-0.1-4:armhf	11658,08333	LGPL-2
libusb-1.0-0:armhf	2:1.0.21-2	GPL-2 LGPL-2.1
libutempter0:armhf	1.1.6-3	GPL-3 LGPL-2.1 LGPL-3
libuuid1:armhf	2.31.1-0.4ubuntu3.3	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
libva-drm2:armhf	2.1.0-3	Expat Expat-advertising GPL-2+ other
libva-x11-2:armhf	2.1.0-3	Expat Expat-advertising GPL-2+ other
libva2:armhf	2.1.0-3	Expat Expat-advertising GPL-2+ other
libvdpau1:armhf	1.1.1-3ubuntu1	Expat other
libvpx5:armhf	1.7.0-3ubuntu0.18.04.1	BSD-3-Clause ISC public-domain
libwaypack1:armhf	5.1.0-2ubuntu1.5	public domain
libwayland-client0:armhf	1.16.0-1ubuntu1.1~18.04.3	X11
libwayland-cursor0:armhf	1.16.0-1ubuntu1.1~18.04.3	X11
libwayland-egl1:armhf	1.16.0-1ubuntu1.1~18.04.3	X11
libwayland-egl1-mesa:armhf	20.0.8-0ubuntu1~18.04.1	Apache-2.0 BSD-2-clause BSD-3-google BSL GPL Khronos MIT MLLA SGI
libwayland-server0:armhf	1.16.0-1ubuntu1.1~18.04.3	X11
libwebp6:armhf	0.6.1-2	Apache-2.0
libwebpmux3:armhf	0.6.1-2	Apache-2.0
libwind0-heimdal:armhf	7.5.0+dfsg-1	BSD-3-clause GPL-2+ custom none
libx11-6:armhf	2:1.6.4-3ubuntu0.3	MIT license
libx11-data	2:1.6.4-3ubuntu0.3	MIT license
libx11-xcb1:armhf	2:1.6.4-3ubuntu0.3	MIT license
libx264-152:armhf	2:0.152.2854+gite9a5903-2	BSD-3-clause Expat GPL-2+ GPL-2+ with other exception ISC LGPL-2.1+ public-domain
libx265-146:armhf	37774	Expat GPL-2+ ISC LGPL-2.1+
libxapian30:armhf	1.4.5-1ubuntu0.1	GPL-2
libxml2:armhf	2.9.4+dfsg1-6.1ubuntu1.2	ISC MIT-1
libxtables12:armhf	1.6.1-2ubuntu2	Artistic-2 GPL-2 GPL-2+ custom
libxv1:armhf	2:1.0.11-1	
libxvidcore4:armhf	03.05.2001	GPL-2+ LGPL-2+
libyaml-0-2:armhf	0.1.7-2ubuntu3	Expat permissive
libzmq5:armhf	4.2.5-1ubuntu0.2	LGPL-2.0+ LGPL-3.0+ MIT
libzstd1:armhf	1.3.3+dfsg-2ubuntu1	BSD-3-clause-with-patent-grant Expat GPL-2 GPL-2+ zlib
libzvi-common	0.2.35-13	BSD-2-Clause BSD-3-Clause GPL-2 GPL-2 or GPL-2+ GPL-2+ GPL-2+ or BSD-3-Clause LGPL-2+ LGPL-2.1+ MIT
libzvi0:armhf	0.2.35-13	BSD-2-Clause BSD-3-Clause GPL-2 GPL-2 or GPL-2+ GPL-2+ GPL-2+ or BSD-3-Clause LGPL-2+ LGPL-2.1+ MIT
lighttpd	1.4.45-1ubuntu3.18.04	BSD-3-clause Open-Market RSA
linux-base	4.5ubuntu1	GPL-2
linux-dtb-next-sunxi	32994	GPL-2
linux-image-next-sunxi	32994	GPL-2
linux-libc-dev	25689	GPL-2
linux-sound-base	1.0.25+dfsg-0ubuntu5	GPL-2
locales	2.27-3ubuntu1.4	GPL-2 LGPL-2.1
lockfile-progs	0.1.17build1	GPL

login	1:4.5-1ubuntu2	GPL-2
logrotate	3.11.0-0.1ubuntu1	GPL-2
lsb-base	9.20170808ubuntu1	BSD-3-clause GPL-2
lsb-release	9.20170808ubuntu1	BSD-3-clause GPL-2
lsof	4.89+dfsg-0.1	BSD-4-clause GPL-2+ LGPL-2+ Purdue sendmail
m4	1.4.18-1	GFDL GPL
make	4.1-9.1ubuntu1	GPL-3+
man-db	2.8.3-2ubuntu0.1	GPL-2+ GPL-3+
mawk	1.3.3-17ubuntu3	GPL-2
mc	3:4.8.19-1	Apache-2.0 BSD-3-Clause GPL-2+ GPL-3+ LGPL-2+ LGPL-2.1+
mc-data	3:4.8.19-1	Apache-2.0 BSD-3-Clause GPL-2+ GPL-3+ LGPL-2+ LGPL-2.1+
micronucleus	1.0	GPL-3.0+
mime-support	3.60ubuntu1	Bellcore ad-hoc
minicom	2.7.1-1	GPL
mmc-utils	0+git20170901.37c86e60-1	BSD-3-clause BSD-3-clause(ST-Ericsson-SA) GPL-2
monit	1:5.25.1-1build1	AGPL-3+ with OpenSSL exception GPL-3+
mono-4.0-gac	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-4.0-service	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-complete	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-csharp-shell	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-devel	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-gac	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-mcs	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-roslyn	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-runtime	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-runtime-common	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-runtime-sgen	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-utils	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mono-xbuild	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
monodoc-base	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
monodoc-browser	4.2-2xamarin12+ubuntu1804b1	GPL-2
monodoc-manual	6.12.0.122-0xamarin1+ubuntu1804b1	Apache-2.0 GPL GPL-2 LGPL-2 LGPL-2.1
mount	2.31.1-0.4ubuntu3.3	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
msbuild	1:16.6+xamarinplat.2020.10.2 2.18.31-0xamarin6+ubuntu1804b1	MIT
msbuild-libhostfxr	3.0.0.2019.04.16.02.13-0xamarin4+ubuntu1804b1	MIT
msbuild-sdkresolver	1:16.6+xamarinplat.2020.10.2 2.18.31-0xamarin6+ubuntu1804b1	MIT
mtd-utils	1:2.0.1-1ubuntu3	GPL-2
multiarch-support	2.27-3ubuntu1	GPL-2 LGPL-2.1
nano	2.9.3-2	GFDL-NIV+ GFDL-NIV+ or GPL-3+ GPL-3+
net-tools	1.60+git20161116.90da8a0-1ubuntu1	GPL-2
netbase	44291	GPL-2
netcat-openbsd	1.187-1ubuntu0.1	BSD-2-Clause BSD-3-Clause
netplan.io	0.97-0ubuntu1~18.04.1	GPL-3
network-manager	1.10.6-2ubuntu1.1	GFDL-NIV-1.1+ GPL-2+ LGPL-2+ LGPL-2.1+
networkd-dispatcher	1.7-0ubuntu3.3	GPL-3+

nocache	1.0-1	BSD-2-clause GPL-3+ GPL-3+ or BSD-2-clause
nplan	0.97-0ubuntu1~18.04.1	GPL-3
ntfs-3g	1:2017.3.23-2ubuntu0.18.04.2	GPL-2+ LGPL-2+
ntpstat	0.0.0.1-1build1	GPL-2
openssh-client	1:7.6p1-4ubuntu0.3	BSD-2-clause BSD-3-clause Beer-ware Expat-with-advertising-restriction Mazieres-BSD-style OpenSSH Powell-BSD-style public-domain
openssh-server	1:7.6p1-4ubuntu0.3	BSD-2-clause BSD-3-clause Beer-ware Expat-with-advertising-restriction Mazieres-BSD-style OpenSSH Powell-BSD-style public-domain
openssh-sftp-server	1:7.6p1-4ubuntu0.3	BSD-2-clause BSD-3-clause Beer-ware Expat-with-advertising-restriction Mazieres-BSD-style OpenSSH Powell-BSD-style public-domain
openssl	1.1.1-1ubuntu2.1~18.04.2	BSD-style
ow-shell	3.1p5-2	Artistic Artistic or GPL-1+ BSD-2-Clauses Expat GPL-1+ GPL-2 GPL-2 or Expat LGPL-2 TNL-2 other-Apple other-MIT
owftpd	3.1p5-2	Artistic Artistic or GPL-1+ BSD-2-Clauses Expat GPL-1+ GPL-2 GPL-2 or Expat LGPL-2 TNL-2 other-Apple other-MIT
owhttpd	3.1p5-2	Artistic Artistic or GPL-1+ BSD-2-Clauses Expat GPL-1+ GPL-2 GPL-2 or Expat LGPL-2 TNL-2 other-Apple other-MIT
owserver	3.1p5-2	Artistic Artistic or GPL-1+ BSD-2-Clauses Expat GPL-1+ GPL-2 GPL-2 or Expat LGPL-2 TNL-2 other-Apple other-MIT
parted	3.2-20ubuntu0.2	GPL-3
passwd	1:4.5-1ubuntu2	GPL-2
patch	2.7.6-2ubuntu1	GPL
perl	5.26.1-6ubuntu0.3	Artistic Artistic or GPL-1+ or Artistic-dist Artistic-2 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 or Artistic-dist GPL-1+ or Artistic; 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
perl-base	5.26.1-6ubuntu0.3	Artistic Artistic or GPL-1+ or Artistic-dist Artistic-2 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 or Artistic-dist GPL-1+ or Artistic; 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
perl-modules-5.26	5.26.1-6ubuntu0.3	Artistic Artistic or GPL-1+ or Artistic-dist Artistic-2 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 or Artistic-dist GPL-1+ or Artistic; 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
pinentry-curses	1.1.0-1	GPL-2 GPL-2+ LGPL-3+ LGPL-3+ or GPL-2+ X11
pkg-config	0.29.1-0ubuntu2	GPL
policykit-1	0.105-20ubuntu0.18.04.5	Apache-2.0 LGPL-2.0+
powermgmt-base	12055	GPL-2+
procps	2:3.3.12-3ubuntu1.1	GPL-2.0+ LGPL-2.0+ LGPL-2.1+
psmisc	23.1-1ubuntu0.1	GPL-2+
pv	1.6.6-1	Artistic GPL-2+
python	2.7.15~rc1-1	GPL-compatible GPL-compatible licenses
python-apt-common	Jun 04	GPL-2+ Permissive
python-dbus	1.2.6-1	AFL-2.1 Expat GPL-2+ GPL-2+ or AFL-2.1
python-ftdi	0.20-2	LGPL-2.1
python-gi	3.26.1-2ubuntu1	Expat LGPL-2.1+
python-gobject	3.26.1-2ubuntu1	Expat LGPL-2.1+
python-gobject-2	2.28.6-12ubuntu3	LGPL-2.1+ MIT/X11 (BSD like)
python-minimal	2.7.15~rc1-1	GPL-compatible GPL-compatible licenses
python-numpy	1:1.13.3-2ubuntu1	public domain
python-pip	9.0.1-2.3~ubuntu1.18.04.4	Expat public-domain
python-pip-whl	9.0.1-2.3~ubuntu1.18.04.4	Expat public-domain
python-pkg-resources	39.0.1-2	GPL-compatible GPL-compatible licenses
python-websocketify	0.8.0+dfsg1-9	BSD-2-clauses GPL-2+ LGPL-2 LGPL-3 MPL-2.0
python2.7	2.7.17-1~18.04ubuntu1.2	Apache-2.0 GPL-2
python2.7-minimal	2.7.17-1~18.04ubuntu1.2	Apache-2.0 GPL-2
python3	3.6.7-1~18.04	GPL-compatible GPL-compatible licenses
python3-apt	38139	GPL-2+ Permissive

python3-certifi	2018.1.18-2	GPL-2 MPL-2
python3-chardet	3.0.4-1	LGPL-2.1+
python3-commandnotfound	38460	GPL
python3-dbus	1.2.6-1	AFL-2.1 Expat GPL-2+ GPL-2+ or AFL-2.1
python3-dev	3.6.7-1~18.04	GPL-compatible GPL-compatible licenses
python3-distutils	3.6.9-1~18.04	GPL-compatible GPL-compatible licenses
python3-gdbm:armhf	3.6.8-1~18.04	GPL-compatible GPL-compatible licenses
python3-gi	3.26.1-2ubuntu1	Expat LGPL-2.1+
python3-idna	37044	BSD-3-clause PSF-2 Unicode
python3-lib2to3	3.6.9-1~18.04	GPL-compatible GPL-compatible licenses
python3-minimal	3.6.7-1~18.04	GPL-compatible GPL-compatible licenses
python3-netifaces	0.10.4-0.1build4	MIT-style
python3-pip	9.0.1-2.3~ubuntu1.18.04.4	Expat public-domain
python3-pkg-resources	39.0.1-2	GPL-compatible GPL-compatible licenses
python3-posix-ipc	0.9.8-3	BSD-3-clause
python3-requests	2.18.4-2ubuntu0.1	Apache
python3-six	1.11.0-2	Expat
python3-software-properties	0.96.24.32.9	GPL-2 LGPL-2.1
python3-urllib3	1.22-1ubuntu0.18.04.2	Expat PSF-2
python3.6	3.6.9-1~18.04ubuntu1.3	GPL-2
python3.6-dev	3.6.9-1~18.04ubuntu1.3	GPL-2
python3.6-minimal	3.6.9-1~18.04ubuntu1.3	GPL-2
qrencode	3.4.4-1build1	LGPL-2.1+ public-domain
qtchooser	64-ga1b6736-5	BSD-3-clause GPL-3 LGPL-2.1 LGPL-2.1 with Digia-1.1 exception LGPL-2.1 with Digia-1.1 exception or GPL-3
qtcore4-l10n	4:4.8.7+dfsg-7ubuntu1	GPL-2 GPL-3 LGPL-2.1
readline-common	7.0-3	GFDL GPL-3
referenceassemblies-pcl	2014.04.14-1xamarin7+ubuntu1804b1	EULA
resolvconf	1.79ubuntu10.18.04.3	GPL-2+
rftkill	2.31.1-0.4ubuntu3.3	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
rsync	3.1.2-2.1ubuntu1	GPL-3
rsyslog	8.32.0-1ubuntu4	Apache-2.0 BSD-3-clause GPL-3.0+ LGPL-3.0+
screen	4.6.2-1ubuntu1.1	GPL-3+
sed	37350	GPL-3
sensible-utils	0.0.12	All-permissive GPL-2+ configure installsh
shared-mime-info	37500	GPL
software-properties-common	0.96.24.32.9	GPL-2 LGPL-2.1
speedtest-cli	2.0.0-1	Apache-2.0 Expat
stress	1.0.4-2	GPL-2+ special
sunxi-tools	1.4.2-2~armbian5.86+1	GPL-2+ MIT
sysfsutils	2.1.0+repack-4build1	GPL LGPL
sysstat	11.6.1-1	GPL-2+
systemd	237-3ubuntu10.52	CC0-1.0 Expat GPL-2 GPL-2+ LGPL-2.1+ public-domain
systemd-sysv	237-3ubuntu10.22	CC0-1.0 Expat GPL-2 GPL-2+ LGPL-2.1+ public-domain
sysvinit-utils	2.88dsf-59.10ubuntu1	GPL-2
tar	1.29b-2ubuntu0.1	GPL-2 GPL-3
tcl	8.6.0+9	GPL
tcl-expect:armhf	5.45.4-1	public domain
tmux	2.6-3ubuntu0.2	BSD-2 BSD-2. BSD-3 bsd-poll.c bsd-poll.h
tree	1.7.0-5	GPL GPL-2
tzdata	2019a-0ubuntu0.18.04	public domain
u-boot-tools	2018.07~rc3+dfsg1-0ubuntu3~18.04.1	Beerware GPL-2 GPL-2+ LGPL-2.1 MPL-GPL bzlib-BSD-3 libfdt-BSD-GPL
ubuntu-advantage-tools	17	GPL-3.0
ubuntu-keyring	2018.09.18.1~18.04.0	GPL
ubuntu-minimal	1.417.1	GPL-2
ubuntu-mono	16.10+18.04.20181005-0ubuntu1	CC-BY-SA-3.0 GPL-3
ucf	30038	GPL-2
udev	237-3ubuntu10.44	CC0-1.0 Expat GPL-2 GPL-2+ LGPL-2.1+ public-domain
ufw	0.36-0ubuntu0.18.04.1	BSD-3-clause GPL-3
unattended-upgrades	1.1ubuntu1.18.04.11	GPL-2+
usbmount	0.0.22	BSD-2

usbutils	1:007-4build1	GPL-2
util-linux	2.31.1-0.4ubuntu3.3	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
vim	2:8.0.1453-1ubuntu1.4	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+ SRA UC Vim Vim-Regexp X11 XPM public-domain
vim-common	2:8.0.1453-1ubuntu1.4	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+ SRA UC Vim Vim-Regexp X11 XPM public-domain
vim-runtime	2:8.0.1453-1ubuntu1.4	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+ SRA UC Vim Vim-Regexp X11 XPM public-domain
vim-tiny	2:8.0.1453-1ubuntu1.4	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+ SRA UC Vim Vim-Regexp X11 XPM public-domain
vlan	1.9-3.2ubuntu6	GPL
watchdog	5.15-2	GPL
websockify	0.8.0+dfsg1-9	BSD-2-clauses GPL-2+ LGPL-2 LGPL-3 MPL-2.0
websockify-common	0.8.0+dfsg1-9	BSD-2-clauses GPL-2+ LGPL-2 LGPL-3 MPL-2.0
wget	1.19.4-1ubuntu2.2	GFDL-1.2 GPL-3
whiptail	0.52.20-1ubuntu1	LGPL-2
wireless-regdb	2018.05.09-0ubuntu1~18.04.1	ISC
wireless-tools	30~pre9-12ubuntu1	GPL-2 LGPL-2.1
wpa_supplicant	2:2.9-1ubuntu4.3	BSD-3-clause BSD-3-clause or GPL-2 GPL-2 ISC public-domain
x11-common	1:7.7+19ubuntu7.1	GPL
xdg-user-dirs	0.17-1ubuntu1	GPL-2
xxd	2:8.0.1453-1ubuntu1.1	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+ SRA UC Vim Vim-Regexp X11 XPM public-domain
xz-utils	5.2.2-1.3	Autoconf GPL-2 GPL-2+ LGPL-2.1+ PD PD-debian config-h noderivs none permissive-fsf permissive-nowarranty probably-PD