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Original operating manual

The English-language edition of this document is the original operating manual.

Translation of the original operating manual

All editions of this document other than those in English language are translations of the original operating manual.

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2.1 Overview

2 Open Source Packages and Licenses

2.1 Overview

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Software Package	Version	License
acl	2.2.49	LGPLv2.1
attr	2.4.47	LGPLv2.1
autoconf	2.69	GPLv3
automake	1.41.1	GPLv2
bash	3.2.48	GPLv2
busybox	1.22.0	GPLv2
can-utils	518faef	GPLv2
cifs-utils	5.2	GPLv2
curl	7.26.0	Custom: curl
daemonize	1.4	GPLv2
dialog	1.1-20100428	LGPLv2.1
dhcp	4.1.2	Custom: ISC
dtc	1.0.0	GPLv2
e2fsprogs	1.42.9	GPLv2
ethtool	3.0	GPLv2
eventlog	0.2.7	Custom: BalaBit
gcllibs	4.8.3	GPLv3 with GCC Runtime Library Exception
fakeroot	1.14.4	GPLv3
flex	2.5.35	Custom
gdbserver	7.7.1	GPLv2/GPLv3/LGPLv2/LGPLv3
gettext	0.18.3.2	GPLv3
glib	2.38.2	LGPLv2
glibc	2.18	LGPLv2.1
gtk-doc	1.13	GPLv3
gdbserver	7.7.1	GPLv2
gettext	0.18.3.2	GPLv3
gmp	0.6.6a	GPLv2/GPLv3/LGPLv3
htop	1.0.2	GPLv2
i2c-tools	3.1.0	GPLv2
iperf	2.0.5	Custom
iproute2	3.14.0	GPLv2
kmod	16	GPLv2
kernel-header	3.12	GPLv2
libbsd	0.6.0	Custom
libffi	3.0.13	Custom: libffi
libiconf	1.13.1	GPLv3

Software Package	Version	License
libtool	2.4.2	GPLv2
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libpcap	1.5.3	BSD
libsocketcan	0.0.10	LGPLv2.1
libusb	1.0.18	LGPLv2.1
Linux-fsl-sdk	2.0-1703	GPLv2
lmsensors	3.3.3	GPLv2/LGPLv2.1
Indir	1.0.2	Custom: The Open Group
logrotate	3.8.7	GPLv2
lsof	4.81.dfsg.1	Custom: lsof
lzo	2.03	GPLv2
lzop	1.03	GPLv2
mc	4.6.1	GPLv2
mii-diag	2.11	GPLv2
mtd-utils	1.5.0	GPLv2
m4	1.4.17	GPLv3
nano	2.3.1	GPLv3
ncurses	5.9	Custom: ncurses
netcat	1.105	Custom: nc
nfsutils	1.3.0	GPLv2
openssh	6.4p1	Custom: OpenSSH
openssl	1.0.1h	Custom: OpenSSL
opkg	0.2.0	GPLv2
opkg-utils	r4747	GPLv2
parted	2.3	GPLv3
pciutils	3.2.1	GPLv2
pcre	8.32	Custom: pcre
pkg-config	0.25	GPLv2
popt	1.15	Custom: Red Hat
procps	3.2.8	GPLv2/LGPLv2
pure-ftp	1.0.36	Custom: BSD
qe-ucode	1.7	Custom: Freescale
readline	6.2	GPLv3
rng-tools	5	GPLv2
rt-tests	0.87	GPLv2
sceen	4.0.3	GPLv2
setserial	2.17	GPL
sp-oops-extract	0.0.7	GPLv2
strace	4.7	Custom: strace
strongswan	5.1.3	GPLv2
squashfs	4.2	GPLv2
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tcpdump	4.5.1	BSD
timezone	1.0	Public Domain
u-boot	2016.11	GPLv2

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2.1 Overview

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udev	182	GPLv2
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usbutils	007	GPLv2
util-linux	2.24	GPLv2
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute

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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.

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.
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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

- a. Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

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- b. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c. If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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3.7.1 curl-7.26.0

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3.7.3 eventlog-0.2.7

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3.7.4 flex 2.5.25

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README - This file.

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examples/ - containing examples of some possible flex scanners and a few other things. See the file examples/README for more details.

TODO - outstanding bug reports, desired features, etc.

tests/ - regression tests. See TESTS/README for details.

po/ - internationalization support files.

3.7.5 iperf-2.0.5

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Iperf performance test

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Jim Ferguson

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual

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description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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This code implements the MD5 message-digest algorithm.

The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed.

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Equivalent code is available from RSA Data Security, Inc.

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To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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3.7.11 netcat-openbsd-1.105

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3.7.12 openssh-6.4p1

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@version 3.0 (December 2000)

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

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

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

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3.7.13 openssl-1.0.1h

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3.7.15 popt-1.15

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3.7.17 `qe-ucode-1.7`

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3.7.18 strace-4.7

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3.7.19 unzip-5.52

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3.7.20 zlib-1.2.8

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