Cherry PP-1516
Licenses of used OpenSource packages
OS_LICENSES

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1 Free Software Licenses

1.1 Used Free Software packages

Table 1.1: Target packages

Package	Version	Licenses
FreeRTOS	v10.1.1	MIT
aho-corasick - rust	0.7.18	Unlicense/MIT
ansi_term - rust	0.12.1	MIT
arm-trusted-firmware	84d36e1719 2082ed80ed a66b0e0082 cdfc4aa2b5	BSD-3-Clause
atty - rust	0.2.14	MIT
autocfg - rust	1.1.0	Apache-2.0 OR MIT
avahi	0.8	LGPL-2.1+
base64 - rust	0.13.0	MIT/Apache-2.0
bindgen - rust	0.59.2	BSD-3-Clause
bitflags - rust	1.3.2	MIT/Apache-2.0
bitstream-vera	1.10	BitstreamVera
bitvec - rust	0.22.3	MIT
busybox	1.35.0	GPL-2.0, bzip2-1.0.4
byteorder - rust	1.4.3	Unlicense OR MIT
bzip2	1.0.8	bzip2 license
cairo	1.16.0	LGPL-2.1 or MPL-1.1 (library)
cantarell	0.0.25	OFL-1.1
cbindgen - rust	0.9.1	MPL-2.0
cc - rust	1.0.73	MIT/Apache-2.0
ccid	1.4.34	LGPL-2.1+
cexpr - rust	0.6.0	Apache-2.0/MIT
cfg-if - rust	1.0.0	MIT/Apache-2.0
chrono - rust	0.4.19	MIT/Apache-2.0
clang-sys - rust	1.3.1	Apache-2.0
clap - rust	2.34.0	MIT
coreutils	9.0	GPL-3.0+
crossbeam - rust	0.8.1	MIT OR Apache-2.0
crossbeam-channel - rust	0.5.4	MIT OR Apache-2.0
crossbeam-deque - rust	0.8.1	MIT OR Apache-2.0
crossbeam-epoch - rust	0.9.8	MIT OR Apache-2.0
crossbeam-queue - rust	0.3.5	MIT OR Apache-2.0
crossbeam-utils - rust	0.8.8	MIT OR Apache-2.0

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Table 1.1 – continued from previous page

Package	Version	Licenses
dejavu	2.37	BitstreamVera, Arev Fonts License
dfu-util	0.11	GPL-2.0+, LGPL-3.0
e2fsprogs	1.46.5	GPL-2.0, MIT-like with advertising clause (libss and libet)
either - rust	1.6.1	MIT/Apache-2.0
env_logger - rust	0.9.0	MIT/Apache-2.0
eudev	3.2.11	GPL-2.0+ (programs), LGPL-2.1+ (libraries)
expat	2.5.0	MIT
fastrand - rust	1.7.0	Apache-2.0 OR MIT
font-awesome	4.7.0	OFL-1.1 (font), MIT (CSS, LESS and Sass files)
fontconfig	2.13.1	fontconfig license
form_urlencoded - rust	1.0.1	MIT/Apache-2.0
freetype	2.11.1	Dual FTL/GPL-2.0+
funty - rust	1.2.0	MIT
gawk	5.1.1	GPL-3.0+
getrandom - rust	0.2.6	MIT OR Apache-2.0
getrandom-0.1.16 - rust	0.1.16	MIT OR Apache-2.0
ghostscript-fonts	8.11	GPL-2.0
glob - rust	0.3.0	MIT/Apache-2.0
gpio - rust	0.4.1	MIT
hermit-abi - rust	0.1.19	MIT/Apache-2.0
hex - rust	0.4.3	MIT OR Apache-2.0
humantime - rust	2.1.0	MIT/Apache-2.0
i2c-linux - rust	0.1.2	MIT
i2c-linux-sys - rust	0.2.0	MIT
icu	70-1	ICU License
idna - rust	0.2.3	MIT/Apache-2.0
inconsolata	001.010	OFL-1.0
instant - rust	0.1.12	BSD-3-Clause
itoa - rust	1.0.1	MIT OR Apache-2.0
jpeg-turbo	2.1.2	IJG (libjpeg), BSD-3-Clause (TurboJPEG), Zlib (SIMD)
jq	a17dd3248a 666d01be75 f6b16be37e 80e20b0954	MIT (code), ICU (decNumber), CC-BY-3.0 (documentation)
json-pointer - rust	0.3.4	MIT
jsonway - rust	2.0.0	MIT
kmod	29	LGPL-2.1+ (library)
lazy_static - rust	1.4.0	MIT/Apache-2.0
lazycell - rust	1.3.0	MIT/Apache-2.0
libc - rust	0.2.121	MIT OR Apache-2.0
libcap-ng	0.8.2	GPL-2.0+ (programs), LGPL-2.1+ (library)
libdaemon	0.14	LGPL-2.1+
libdrm	2.4.109	MIT
liberation	2.1.5	OFL-1.1

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Package	Version	Licenses
libevdev	1.12.1	MIT
libffi	3.4.2	MIT
libifdse	280ecbe1a2 cd5a62c7fa dc602ea525 26edca35d4	MIT
libinput	1.20.1	MIT
libloading - rust	0.7.3	ISC
libopenssl	1.1.1t	OpenSSL or SSLeay
libpng	1.6.37	Libpng-2.0
libpthread-stubs	0.4	MIT
libudev-sys - rust	0.1.4	MIT
libusb	1.0.25	LGPL-2.1+
libusb1-sys - rust	0.6.0	MIT
libwebsockets	4.0.21	MIT with exceptions
libxkbcommon	1.3.1	MIT/X11
libxml2	2.10.3	MIT
libzlib	1.2.12	Zlib
linux	4acd1203aa 7e3031ab9f 2bf7b976b4 0b1ef7bc82	GPL-2.0
log - rust	0.4.16	MIT OR Apache-2.0
matches - rust	0.1.9	MIT
mbed TLS	v2.23.0	Apache-2.0
memchr - rust	2.4.1	Unlicense/MIT
memoffset - rust	0.6.5	MIT
mesa3d	21.3.5	MIT, SGI, Khronos
minimal-lexical - rust	0.2.1	MIT/Apache-2.0
mtdev	1.1.6	MIT
newlib	v3.0.0	Various, see licenses file below.
nix - rust	0.23.1	MIT
nom - rust	7.1.1	MIT
num-integer - rust	0.1.44	MIT OR Apache-2.0
num-traits - rust	0.2.14	MIT OR Apache-2.0
pcre2	10.40	BSD-3-Clause
pcsc-lite	1.9.5	BSD-2-Clause (auth), BSD-3-Clause, GPL-3.0+ (spy, tests), ISC (simclist)
peeking_take_while - rust	0.1.2	Apache-2.0/MIT
percent-encoding - rust	2.1.0	MIT/Apache-2.0
pixman	0.42.2	MIT
pkg-config - rust	0.3.25	MIT OR Apache-2.0
ppv-lite86 - rust	0.2.16	MIT/Apache-2.0
proc-macro2 - rust	1.0.37	MIT OR Apache-2.0
publicsuffix - rust	1.5.6	MIT/Apache-2.0

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Table 1.1 – continued from previous page

Package	Version	Licenses
qt5base	f31e001a9399e4e620847ea2c3e90749350140ae	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5declarative	9349f3975d26632befc036fc9f2ea6e03aee2182	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5graphicaleffects	c36998dc1581167b12cc3de8e4ac68c2a5d9f76e	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5quickcontrols	cf3f6d7fec824cdf01f9b329ab3b92b1c0e0a420	GPL-2.0 or GPL-3.0 or LGPL-3.0, GFDL-1.3 (docs)
qt5quickcontrols2	d8d6b14b9907adbc6ce307d52be34aaa761a58fa	GPL-3.0 or LGPL-3.0, GFDL-1.3 (docs)
qt5svg	728012f7762ecd5762d493f8796907c6456f31e7	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5wayland	b6d85c2a75f5618e87267f5b5c361455be257a17	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
quote - rust	1.0.17	MIT OR Apache-2.0
radium - rust	0.6.2	MIT
rand - rust	0.8.5	MIT OR Apache-2.0
rand-0.7.3 - rust	0.7.3	MIT OR Apache-2.0
rand_chacha - rust	0.3.1	MIT OR Apache-2.0
rand_chacha-0.2.2 - rust	0.2.2	MIT OR Apache-2.0
rand_core - rust	0.6.3	MIT OR Apache-2.0
rand_core-0.5.1 - rust	0.5.1	MIT OR Apache-2.0
rand_hc - rust	0.2.0	MIT/Apache-2.0
rand_pcg - rust	0.2.1	MIT OR Apache-2.0
redox_syscall - rust	0.2.13	MIT
regex - rust	1.5.5	MIT OR Apache-2.0
regex-syntax - rust	0.6.25	MIT/Apache-2.0
remove_dir_all - rust	0.5.3	MIT/Apache-2.0
resize-slice - rust	0.1.3	MIT
rusb - rust	0.9.0	MIT
rustc-hash - rust	1.1.0	Apache-2.0/MIT
ryu - rust	1.0.9	Apache-2.0 OR BSL-1.0
scopeguard - rust	1.1.0	MIT/Apache-2.0
seatd	0.6.4	MIT

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Package	Version	Licenses
serde - rust	1.0.136	MIT OR Apache-2.0
serde_derive - rust	1.0.136	MIT OR Apache-2.0
serde_json - rust	1.0.79	MIT OR Apache-2.0
shlex - rust	1.1.0	MIT OR Apache-2.0
signal-hook - rust	0.3.13	Apache-2.0/MIT
signal-hook-registry - rust	1.4.0	Apache-2.0/MIT
siphasher - rust	0.3.10	MIT/Apache-2.0
squashfs	4.5	GPL-2.0+
strsim - rust	0.8.0	MIT
syn - rust	1.0.91	MIT OR Apache-2.0
synstructure - rust	0.12.6	MIT
tap - rust	1.0.1	MIT
tempfile - rust	3.3.0	MIT OR Apache-2.0
termcolor - rust	1.1.3	Unlicense OR MIT
textwrap - rust	0.11.0	MIT
tinyvec - rust	1.5.1	Zlib OR Apache-2.0 OR MIT
tinyvec_macros - rust	0.1.0	MIT OR Apache-2.0 OR Zlib
toml - rust	0.5.8	MIT/Apache-2.0
toolchain-external-arm-aarch64	2021.07	GPL-2.0+ (programs), LGPL-2.1+, BSD-3-Clause, MIT (library)
uboot	e3ec87c944e2b518d06edec48a51b3486250fb02	GPL-2.0+
udev - rust	0.6.3	MIT
unicode-bidi - rust	0.3.7	MIT / Apache-2.0
unicode-normalization - rust	0.1.19	MIT/Apache-2.0
unicode-width - rust	0.1.9	MIT/Apache-2.0
unicode-xid - rust	0.2.2	MIT OR Apache-2.0
uninitialized - rust	0.0.2	MIT
uritemplate-next - rust	0.2.0	BSD-3-Clause
url - rust	2.2.2	MIT/Apache-2.0
util-linux	2.37.4	GPL-2.0+, BSD-4-Clause, LGPL-2.1+ (libblkid, libfdisk, libmount), BSD-3-Clause (libuuid), ISC (rfkill)
util-linux-libs	2.37.4	LGPL-2.1+ (libblkid, libfdisk, libmount), BSD-3-Clause (libuuid)
uuid - rust	0.8.2	Apache-2.0 OR MIT
vcpkg - rust	0.2.15	MIT/Apache-2.0
vec_map - rust	0.8.2	MIT/Apache-2.0
wasi - rust	0.10.2+wasi-snapshot-preview1	Apache-2.0 WITH LLVM-exception OR Apache-2.0 OR MIT
wasi-0.9.0+wasi-snapshot-preview1 - rust	0.9.0+wasi-snapshot-preview1	Apache-2.0 WITH LLVM-exception OR Apache-2.0 OR MIT

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Package	Version	Licenses
wayland	1.19.0	MIT
wayland-protocols	1.25	MIT
weston	10.0.1	MIT
which - rust	4.2.5	MIT
winapi - rust	0.3.9	MIT/Apache-2.0
winapi-util - rust	0.1.5	Unlicense/MIT
wyz - rust	0.4.0	MIT
xkeyboard-config	2.34	MIT
zeroize - rust	1.5.4	Apache-2.0 OR MIT
zeroize_derive - rust	1.3.2	Apache-2.0 OR MIT

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1.2.2 aho-corasick - rust

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1.2.3 ansi_term - rust

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1.2.4 arm-trusted-firmware

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1.2.5 atty - rust

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1.2.6 autocfg - rust

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1.2.7 avahi

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    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
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    application-supplied function or table used by this function must
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That's all there is to it!
```

1.2.8 base64 - rust

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1.2.9 bindgen - rust

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1.2.10 bitflags - rust

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1.2.11 bitstream-vera

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   1. I don't understand the resale restriction... What gives?

      Bitstream is giving away these fonts, but wishes to ensure its
      competitors can't just drop the fonts as is into a font sale system
      and sell them as is. It seems fair that if Bitstream can't make money
      from the Bitstream Vera fonts, their competitors should not be able to
      do so either. You can sell the fonts as part of any software package,
      however.

   2. I want to package these fonts separately for distribution and
      sale as part of a larger software package or system.  Can I do so?

      Yes. A RPM or Debian package is a "larger software package" to begin
      with, and you aren't selling them independently by themselves.
      See 1. above.

   3. Are derivative works allowed?
      Yes!

   4. Can I change or add to the font(s)?
      Yes, but you must change the name(s) of the font(s).

   5. Under what terms are derivative works allowed?

      You must change the name(s) of the fonts. This is to ensure the
      quality of the fonts, both to protect Bitstream and Gnome. We want to
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    substitutions could still could have occurred during font
    opening). You must include the Bitstream copyright. Additional
    copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get
    adopted in future versions?

    Yes. The contract between the Gnome Foundation and Bitstream has
    provisions for working with Bitstream to ensure quality additions to
    the Bitstream Vera font family. Please contact us if you have such
    additions. Note, that in general, we will want such additions for the
    entire family, not just a single font, and that you'll have to keep
    both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add
    glyphs to the font, they must be stylistically in keeping with Vera's
    design. Vera cannot become a "ransom note" font. Jim Lyles will be
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7. I want to sell a software package that uses these fonts: Can I do so?

    Sure. Bundle the fonts with your software and sell your software
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8. If applications have built the names "Bitstream Vera" into them,
    can I override this somehow to use fonts of my choosing?

    This depends on exact details of the software. Most open source
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    names and subsituting alternatives. An example is provided by the
    supplied local.conf file, which chooses the family Bitstream Vera for
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```

1.2.12 bitvec - rust

```
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1.2.13 busybox

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.2.14 byteorder - rust

```
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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.2.16 cairo

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    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
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creates an executable that is a derivative of the Library (because it
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library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
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    Library will not necessarily be able to recompile the application
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    b) Use a suitable shared library mechanism for linking with the
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1.2.17 cantarell

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1.2.19 cc - rust

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1.2.20 ccid

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    its purpose remains meaningful.

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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
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1.2.24 clang-sys - rust

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1.2.25 clap - rust

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1.2.26 coreutils

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```

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  This option is useful when you wish to copy part of the code of
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That's all there is to it!
```

```
/*

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*/
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```
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 * internal include file for com_err package
 *
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 */

#include <errno.h>

#ifdef NEED_SYS_ERRLIST
extern char const * const sys_errlist[];
extern const int sys_nerr;
#endif
```

1.2.36 either - rust

```
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1.2.37 env_logger - rust

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1.2.39 expat

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1.2.44 funty - rust

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1.2.45 gawk

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    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

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

    d) Convey the object code by offering access from a designated
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1.2.46 getrandom - rust

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1.2.47 getrandom-0.1.16 - rust

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1.2.61 jpeg-turbo

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW            General description of JPEG and the IJG software.
LEGAL ISSUES        Copyright, lack of warranty, terms of distribution.
REFERENCES          Where to learn more about JPEG.
ARCHIVE LOCATIONS   Where to find newer versions of this software.
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Other documentation files in the distribution are:

User documentation:
  usage.txt         Usage instructions for cjpeg, djpeg, jpegtran,
                    rdjpgcom, and wrjpgcom.
  *.1               Unix-style man pages for programs (same info as usage.txt).
  wizard.txt        Advanced usage instructions for JPEG wizards only.
  change.log        Version-to-version change highlights.
Programmer and internal documentation:
  libjpeg.txt       How to use the JPEG library in your own programs.
  example.txt       Sample code for calling the JPEG library.
  structure.txt     Overview of the JPEG library's internal structure.
  coderules.txt     Coding style rules --- please read if you contribute code.

Please read at least usage.txt.  Some information can also be found in the JPEG
FAQ (Frequently Asked Questions) article.  See ARCHIVE LOCATIONS below to find
out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.


OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding.  JPEG (pronounced "jay-peg") is a standardized compression
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method for full-color and grayscale images.  JPEG's strong suit is compressing
photographic images or other types of images that have smooth color and
brightness transitions between neighboring pixels.  Images with sharp lines or
other abrupt features may not compress well with JPEG, and a higher JPEG
quality may have to be used to avoid visible compression artifacts with such
images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to
the input pixels.  However, on photographic content and other "smooth" images,
very good compression ratios can be obtained with no visible compression
artifacts, and extremely high compression ratios are possible if you are
willing to sacrifice image quality (by reducing the "quality" setting in the
compressor.)

This software implements JPEG baseline, extended-sequential, and progressive
compression processes.  Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays.  These extra functions can be compiled out of the
library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between
different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple
applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful.  In particular,
the software is not intended to be read as a tutorial on JPEG.  (See the
REFERENCES section for introductory material.)  Rather, it is intended to
be reliable, portable, industrial-strength code.  We do not claim to have
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REFERENCES
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We recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
        Wallace, Gregory K.  "The JPEG Still Picture Compression Standard",
        Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.)  If you don't have the CACM issue
handy, a PDF file containing a revised version of Wallace's article is
available at http://www.ijg.org/files/Wallace.JPEG.pdf.  The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material.  Note: the Wallace article is copyright ACM and IEEE,
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A somewhat less technical, more leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1.  This book provides
good explanations and example C code for a multitude of compression methods
including JPEG.  It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general.  The book's JPEG
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sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still
Image Data Compression Standard" by William B. Pennebaker and Joan L.
Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1.
Price US$59.95, 638 pp.  The book includes the complete text of the ISO JPEG
standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual
specification, while Part 2 covers compliance testing methods.  Part 1 is
titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81.  Part 2 is titled "Digital Compression and Coding of
Continuous-tone Still Images, Part 2: Compliance testing" and has document
numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file
format.  For the omitted details, we follow the "JFIF" conventions, revision
1.02.  JFIF version 1 has been adopted as ISO/IEC 10918-5 (05/2013) and
Recommendation ITU-T T.871 (05/2011): Information technology - Digital
compression and coding of continuous-tone still images: JPEG File Interchange
Format (JFIF).  It is available as a free download in PDF file format from
https://www.iso.org/standard/54989.html and http://www.itu.int/rec/T-REC-T.871.
A PDF file of the older JFIF 1.02 specification is available at
http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained from
http://mirrors.ctan.org/graphics/tiff/TIFF6.ps.gz.  The JPEG incorporation
scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious
problems.  IJG does not recommend use of the TIFF 6.0 design (TIFF Compression
tag 6).  Instead, we recommend the JPEG design proposed by TIFF Technical Note
#2 (Compression tag 7).  Copies of this Note can be obtained from
http://www.ijg.org/files/.  It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note.


ARCHIVE LOCATIONS
=================

The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in
directory "files".

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.  It is available at
http://www.faqs.org/faqs/jpeg-faq.


FILE FORMAT COMPATIBILITY
=========================

This software implements ITU T.81 | ISO/IEC 10918 with some extensions from
ITU T.871 | ISO/IEC 10918-5 (JPEG File Interchange Format-- see REFERENCES).
Informally, the term "JPEG image" or "JPEG file" most often refers to JFIF or
a subset thereof, but there are other formats containing the name "JPEG" that
are incompatible with the DCT-based JPEG standard or with JFIF (for instance,
JPEG 2000 and JPEG XR).  This software therefore does not support these
formats.  Indeed, one of the original reasons for developing this free software
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was to help force convergence on a common, interoperable format standard for
JPEG files.

JFIF is a minimal or "low end" representation.  TIFF/JPEG (TIFF revision 6.0 as
modified by TIFF Technical Note #2) can be used for "high end" applications
that need to record a lot of additional data about an image.


TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
```

1.2.62 jq

```
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1.2.63 json-pointer - rust

```
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1.2.65 kmod

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    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
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    application-supplied function or table used by this function must
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1.2.67 lazycell - rust

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1.2.68 libc - rust

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

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

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

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

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

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

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

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

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
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  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
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modification of the work for the customer's own use and reverse
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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
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    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
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    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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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
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  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!
```

1.2.70 libdaemon

```
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    d) If a facility in the modified Library refers to a function or a
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    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.)

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  4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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distribute the source code, even though third parties are not
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  5. A program that contains no derivative of any portion of the
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  When a "work that uses the Library" uses material from a header file
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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
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work.  (Executables containing this object code plus portions of the
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  6. As an exception to the Sections above, you may also combine or
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    user can modify the Library and then relink to produce a modified
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    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

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1.2.71 libdrm

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1.2.77 libloading - rust

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1.2.80 libpthread-stubs

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1.2.81 libudev-sys - rust

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1.2.82 libusb

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1.2.83 libusb1-sys - rust

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complete object files to the recipients, so that they can relink them
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    its purpose remains meaningful.

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    a purpose that is entirely well-defined independent of the
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functions (ten lines or less in length), then the use of the object
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work.  (Executables containing this object code plus portions of the
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  Otherwise, if the work is a derivative of the Library, you may
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    b) Give prominent notice with the combined library of the fact
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1.2.84 libwebsockets

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1.2.85 libxkbcommon

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1.2.86 libxml2

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1.2.87 libzlib

```
ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.12 is a general purpose data compression library.  All the code is
thread safe.  The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org).  A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly.  Another example is given in the file
test/minigzip.c.  The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in.  In short "./configure; make test", and if that goes
well, "make install" should work for most flavors of Unix.  For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ .  For VMS, use
make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version.  The zlib home page is
http://zlib.net/ .  Before reporting a problem, please check this site to
verify that you have the latest version of zlib; otherwise get the latest
version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan.  1997
issue of Dr.  Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.12 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/ .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.
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```
Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
  -O, one libpng test fails. The test works in 32 bit mode (with the -n32
  compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works
  when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
  necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
  other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/


Acknowledgments:

  The deflate format used by zlib was defined by Phil Katz.  The deflate and
  zlib specifications were written by L.  Peter Deutsch.  Thanks to all the
  people who reported problems and suggested various improvements in zlib; they
  are too numerous to cite here.

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  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

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1.2.88 linux

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1.2.89 log - rust

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|                 | include/GL/glxext.h    |                             |
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| GLX client code | src/glx/               | SGI Free Software License B |
+-----------------+------------------------+-----------------------------+
| C11 thread      | include/c11/threads*.h | Boost (permissive)          |
| emulation       |                        |                             |
+-----------------+------------------------+-----------------------------+

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1.2.95 minimal-lexical - rust

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`src/bellerophon.rs` is loosely based off the Golang implementation,
found [here](https://github.com/golang/go/blob/b10849fbb97a2244c086991b4623ae9f32c212d0/src/strconv/
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1.2.96 mtdev

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1.2.98 nix - rust

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1.2.100 num-integer - rust

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1.2.102 pcre2

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Email local part: Philip.Hazel
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1.2.103 pcsc-lite

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1.2.104 peeking_take_while - rust

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1.2.106 pixman

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1.2.107 pkg-config - rust

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1.2.108 ppv-lite86 - rust

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    with subsection 6b.

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    Corresponding Source in the same way through the same place at no
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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,
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  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  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
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    (including a physical distribution medium), accompanied by a
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    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
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    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
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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
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network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

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    the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
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  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
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  7. If, as a consequence of a court judgment or allegation of patent
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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.

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to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

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

    This program is free software; you can redistribute it and/or modify
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    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```
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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
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  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

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freedoms that you received.  You must make sure that they, too, receive
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or can get the source code.  And you must show them these terms so they
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  Developers that use the GNU GPL protect your rights with two steps:
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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
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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.

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  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
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"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
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distribution (with or without modification), making available to the
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  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.

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  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
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non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

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

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

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

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

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

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

  6. Conveying Non-Source Forms.

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

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

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

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

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
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    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.
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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.
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authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
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  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
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  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
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  The precise terms and conditions for copying, distribution and
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"recipients" may be individuals or organizations.

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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
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  To "propagate" a work means to do anything with it that, without
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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"
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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.
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  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.

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    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
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    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
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    product that is covered by this License, on a durable physical
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    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
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    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
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  "Installation Information" for a User Product means any methods,
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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
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modification has been made.

  If you convey an object code work under this section in, or with, or
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User Product is transferred to the recipient in perpetuity or for a
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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).

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requirement to continue to provide support service, warranty, or updates
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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,
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  Developers that use the GNU GPL protect your rights with two steps:
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  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.

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

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  To "modify" a work means to copy from or adapt all or part of the work
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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
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feature that (1) displays an appropriate copyright notice, and (2)
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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
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    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
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    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

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

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    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

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

  1. You may copy and distribute verbatim copies of the Program's
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    b) You must cause any work that you distribute or publish, that in
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    part thereof, to be licensed as a whole at no charge to all third
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    c) If the modified program normally reads commands interactively
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    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
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    a warranty) and that users may redistribute the program under
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    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
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    source code, which must be distributed under the terms of Sections
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    b) Accompany it with a written offer, valid for at least three
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    cost of physically performing source distribution, a complete
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    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
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  Finally, every program is threatened constantly by software patents.
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  "Copyright" also means copyright-like laws that apply to other kinds of
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  To "modify" a work means to copy from or adapt all or part of the work
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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
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permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
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distribution (with or without modification), making available to the
public, and in some countries other activities as well.

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parties to make or receive copies.  Mere interaction with a user through
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  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
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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.
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  You may convey a work based on the Program, or the modifications to
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terms of section 4, provided that you also meet all of these conditions:

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

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

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
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    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
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  6. Conveying Non-Source Forms.

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of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

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

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

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

    d) Convey the object code by offering access from a designated
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    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
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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
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Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
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modified object code on the User Product (for example, the work has
been installed in ROM).

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    only if you received the object code with such an offer, in accord
    with subsection 6b.
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The Qt Company GPL Exception 1.0

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    more than your reasonable cost of physically performing this
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doubtful cases shall be resolved in favor of coverage.  For a particular
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1.2.119 radium - rust

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1.2.121 rand-0.7.3 - rust

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1.2.122 rand_chacha - rust

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1.2.123 rand_chacha-0.2.2 - rust

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1.2.125 rand_core-0.5.1 - rust

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1.2.126 rand_hc - rust

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1.2.127 rand_pcg - rust

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1.2.135 ryu - rust

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1.2.139 serde_derive - rust

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1.2.140 serde_json - rust

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1.2.141 shlex - rust

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1.2.143 signal-hook-registry - rust

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covered by this License; they are outside its scope.  The act of
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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
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You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.
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  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
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    announcement including an appropriate copyright notice and a
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    a warranty) and that users may redistribute the program under
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    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
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In addition, mere aggregation of another work not based on the Program
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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
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    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
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  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice
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there is no warranty for the free library.  Also, if the library is
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that what they have is not the original version, so that the original
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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
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entire combination fits its criteria of freedom.  The Lesser General
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does Less to protect the user's freedom than the ordinary General
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of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

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

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

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.
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  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
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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
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    a) The modified work must itself be a software library.

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

    c) You must cause the whole of the work to be licensed at no
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    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
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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
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In addition, mere aggregation of another work not based on the Library
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  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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

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

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

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

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

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


  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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
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    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

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

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

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

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

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


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1.2.160 unicode-normalization - rust

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1.2.161 unicode-width - rust

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1.2.162 unicode-xid - rust

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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
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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
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library does the same job as widely used non-free libraries.  In this
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linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

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"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.


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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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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.

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covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
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on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

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    charge to all third parties under the terms of this License.

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    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.)

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In addition, mere aggregation of another work not based on the Library
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  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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

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

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

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

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

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
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  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.


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

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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
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    d) If distribution of the work is made by offering access to copy
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    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
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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
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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
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That's all there is to it!
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1.2.168 uuid - rust

```
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1.2.169 vcpkg - rust

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1.2.170 vec_map - rust

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1.2.172 wasi-0.9.0+wasi-snapshot-preview1 - rust

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1.2.173 wayland

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1.2.177 winapi - rust

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1.2.178 winapi-util - rust

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1.2.181 zeroize - rust

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1.2.182 zeroize_derive - rust

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