Cherry ST-1506
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
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
darling - rust	0.12.4	MIT

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Table 1.1 – continued from previous page

Package	Version	Licenses
darling_core - rust	0.12.4	MIT
darling_macro - rust	0.12.4	MIT
davici	1.4	LGPL-2.1+
dejavu	2.37	BitstreamVera, Arev Fonts License
derive_builder - rust	0.10.2	MIT/Apache-2.0
derive_builder_core - rust	0.10.2	MIT/Apache-2.0
derive_builder_macro - rust	0.10.2	MIT/Apache-2.0
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
fnv - rust	1.0.7	Apache-2.0 / 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
ident_case - rust	1.0.1	MIT/Apache-2.0
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	a17dd3248a666d01be75f6b16be37e80e20b0954	MIT (code), ICU (decNumber), CC-BY-3.0 (documentation)

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Table 1.1 – continued from previous page

Package	Version	Licenses
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	2.62	GPL-2.0 or BSD-3-Clause
libcap-ng	0.8.2	GPL-2.0+ (programs), LGPL-2.1+ (library)
libcurl	7.87.0	curl
libdaemon	0.14	LGPL-2.1+
libdrm	2.4.109	MIT
liberation	2.1.5	OFL-1.1
libevdev	1.12.1	MIT
libevent	2.1.12	BSD-3-Clause, OpenBSD
libifdse	280ecbe1a2 cd5a62c7fa dc602ea525 26edca35d4	MIT
libloading - rust	0.7.3	ISC
libmnl	1.0.5	LGPL-2.1+
libnftnl	1.2.1	GPL-2.0+
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
libzlib	1.2.12	Zlib
linenoise	97d2850af1 3c33936909 3b78abe526 5845d78220	BSD-2-Clause
linux	eed65d4e58 373e2a05f4 8838f6262c 398eec03b4	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
neli - rust	0.6.3	BSD-3-Clause
neli-proc-macros - rust	0.1.4	BSD-3-Clause

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Package	Version	Licenses
newlib	v3.0.0	Various, see licenses file below.
nftables	1.0.1	GPL-2.0
nix - rust	0.23.1	MIT
nom - rust	7.1.1	MIT
ntp	4.2.8p15	NTP
num-integer - rust	0.1.44	MIT OR Apache-2.0
num-traits - rust	0.2.14	MIT OR Apache-2.0
optee-client	3.15.0	BSD-2-Clause
optee-os	7348a05835 7f9f7d2b35 5b59d24a25 a28987f601	BSD-2-Clause
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
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
qt5base	f31e001a93 99e4e62084 7ea2c3e907 49350140ae	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5declarative	9349f3975d 26632befc0 36fc9f2ea6 e03aee2182	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5graphicaleffects	c36998dc15 81167b12cc 3de8e4ac68 c2a5d9f76e	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5quickcontrols	cf3f6d7fec 824cdf01f9 b329ab3b92 b1c0e0a420	GPL-2.0 or GPL-3.0 or LGPL-3.0, GFDL-1.3 (docs)
qt5quickcontrols2	d8d6b14b99 07adbc6ce3 07d52be34a aa761a58fa	GPL-3.0 or LGPL-3.0, GFDL-1.3 (docs)
qt5svg	728012f776 2ecd5762d4 93f8796907 c6456f31e7	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

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Package	Version	Licenses
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
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+
strongswan	5.9.5	GPL-2.0+
strsim - rust	0.10.0	MIT
strsim-0.8.0 - 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
thiserror - rust	1.0.39	MIT OR Apache-2.0
thiserror-impl - rust	1.0.39	MIT OR Apache-2.0
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)
tzdata	2021e	Public domain

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Table 1.1 – continued from previous page

Package	Version	Licenses
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
which - rust	4.2.5	MIT
winapi - rust	0.3.9	MIT/Apache-2.0
winapi-util - rust	0.1.5	Unlicense/MIT
wireguard-uapi - rust	3.0.0	MIT
wyz - rust	0.4.0	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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1.2.5 atty - rust

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1.2.6 autocfg - rust

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1.2.7 avahi

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1.2.8 base64 - rust

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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
   systems and software (e.g., Gnome, KDE, etc.) are now converting to
   use fontconfig (see www.fontconfig.org) to handle font configuration,
   selection and substitution; it has provisions for overriding font
   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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```
      "sans", "serif" and "monospace".  Other software (e.g., the XFree86
      core server) has other mechanisms for font substitution.
```

1.2.12 bitvec - rust

```
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1.2.14 byteorder - rust

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1.2.15 bzip2

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1.2.16 cantarell

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1.2.17 cbindgen - rust

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1.2.20 cexpr - rust

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1.2.21 cfg-if - rust

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1.2.23 clang-sys - rust

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1.2.24 clap - rust

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1.2.25 coreutils

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1.2.26 crossbeam - rust

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1.2.27 crossbeam-channel - rust

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1.2.29 crossbeam-epoch - rust

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1.2.30 crossbeam-queue - rust

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1.2.31 crossbeam-utils - rust

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1.2.35 davici

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1.2.36 dejavu

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1.2.37 derive_builder - rust

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1.2.38 derive_builder_core - rust

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1.2.39 derive_builder_macro - rust

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1.2.40 dfu-util

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1.2.41 e2fsprogs

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  If such an object file uses only numerical parameters, data
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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
```

1.2.42 either - rust

```
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1.2.47 fnv - rust

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`include/freetype/internal/fthash.h`; they wer part  of the BDF driver
in earlier FreeType versions.

The gzip  module uses the  zlib license (see  `src/gzip/zlib.h`) which
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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.
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  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.

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makes it unnecessary.

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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:

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  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:

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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
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

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

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
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    you inform other peers where the object code and Corresponding
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  A separable portion of the object code, whose source code is excluded
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1.2.53 getrandom - rust

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1.2.61 i2c-linux - rust

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1.2.69 jpeg-turbo

```
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README.  It is included only for reference.  Please see README.md for
information specific to libjpeg-turbo.


The Independent JPEG Group's JPEG software
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========================================

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(also known as JPEG, together with ITU-T SG16).


DOCUMENTATION ROADMAP
=====================

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.
FILE FORMAT WARS    Software *not* to get.
TO DO               Plans for future IJG releases.

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
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.
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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
==========

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,
and it may not be used for commercial purposes.

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
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.
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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
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.
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TO DO
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Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
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1.2.70 jq

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1.2.71 json-pointer - rust

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Section 6 states terms for distribution of such executables.
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1.2.74 lazy_static - rust

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1.2.75 lazycell - rust

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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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  Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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whether or not they are linked directly with the Library itself.
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That's all there is to it!
```

1.2.79 libcurl

```
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1.2.80 libdaemon

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be allowed to use the library.  A more frequent case is that a free
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library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
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    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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  If distribution of object code is made by offering access to copy
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  5. A program that contains no derivative of any portion of the
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  However, linking a "work that uses the Library" with the Library
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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
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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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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
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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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engineering for debugging such modifications.

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of these things:

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    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
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    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
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use both them and the Library together in an executable that you
distribute.
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  7. You may place library facilities that are a work based on the
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1.2.81 libdrm

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1.2.82 liberation

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1.2.83 libevdev

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1.2.84 libevent

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1.2.85 libifdse

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1.2.86 libloading - rust

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1.2.87 libmnl

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

1.2.88 libnftnl

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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
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    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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source code from the same place satisfies the requirement to
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compelled to copy the source along with the object code.

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Section 6 states terms for distribution of such executables.

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  If such an object file uses only numerical parameters, data
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work.  (Executables containing this object code plus portions of the
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whether or not they are linked directly with the Library itself.


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modification of the work for the customer's own use and reverse
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engineering for debugging such modifications.

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    changes were used in the work (which must be distributed under
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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
    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
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    b) Use a suitable shared library mechanism for linking with the
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  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

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

1.2.94 libusb1-sys - rust

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you.  You must make sure that they, too, receive or can get the source
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linked with the Library has the freedom and the wherewithal to run
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    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
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subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
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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
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must be distributed under the terms of Sections 1 and 2 above on a
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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
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  Otherwise, if the work is a derivative of the Library, you may
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directing the user to the copy of this License.  Also, you must do one
of these things:
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That's all there is to it!
```

1.2.95 libwebsockets

```
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```

1.2.96 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
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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.


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/


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  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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```

1.2.97 linenoise

```
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1.2.98 linux

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1.2.105 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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1.2.110 nix - rust

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1.2.112 ntp

1.2.113 num-integer - rust

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1.2.117 pcre2

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1.2.119 peeking_take_while - rust

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1.2.121 pkg-config - rust

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The source code for a work means the preferred form of the work for
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the interface presents a list of user commands or options, such as a
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implementation is available to the public in source code form.  A
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(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
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programs which are used unmodified in performing those activities but
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the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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    d) Convey the object code by offering access from a designated
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    copy the object code is a network server, the Corresponding Source
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    clear directions next to the object code saying where to find the
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    you inform other peers where the object code and Corresponding
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(if any) on which the executable work runs, or a compiler used to
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produce the work, or an object code interpreter used to run it.

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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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                    TERMS AND CONDITIONS

  0. Definitions.

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

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

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

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
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(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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the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

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circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
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users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
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recipients a copy of this License along with the Program.

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and you may offer support or warranty protection for a fee.

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

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

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

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

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

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

  6. Conveying Non-Source Forms.

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

    a) Convey the object code in, or embodied in, a physical product
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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
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

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

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

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
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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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The Qt Company GPL Exception 1.0

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produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
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work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
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    (including a physical distribution medium), accompanied by a
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    more than your reasonable cost of physically performing this
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    only if you received the object code with such an offer, in accord
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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
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    Corresponding Source along with the object code.  If the place to
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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
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  Corresponding Source conveyed, and Installation Information provided,
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produce the work, or an object code interpreter used to run it.

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    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.

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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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programs which are used unmodified in performing those activities but
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includes interface definition files associated with source files for
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    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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    more than your reasonable cost of physically performing this
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Corresponding Source conveyed under this section must be accompanied
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    (including a physical distribution medium), accompanied by the
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    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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    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
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    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
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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
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    you inform other peers where the object code and Corresponding
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1.2.134 rand-0.7.3 - rust

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1.2.135 rand_chacha - rust

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1.2.136 rand_chacha-0.2.2 - rust

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1.2.137 rand_core - rust

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1.2.138 rand_core-0.5.1 - rust

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1.2.139 rand_hc - rust

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1.2.140 rand_pcg - rust

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1.2.141 redox_syscall - rust

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1.2.143 regex-syntax - rust

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1.2.144 remove_dir_all - rust

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1.2.151 serde_derive - rust

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1.2.152 serde_json - rust

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1.2.170 tinyvec_macros - rust

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    allowed only for noncommercial distribution and only if you
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    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.
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portion of it, either verbatim or with modifications and/or translated
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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
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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,
and can be reasonably considered independent and separate works in
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  If distribution of object code is made by offering access to copy
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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.

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Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
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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
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    b) Use a suitable shared library mechanism for linking with the
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    specified materials from the same place.

    e) Verify that the user has already received a copy of these
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1.2.175 udev - rust

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1.2.177 unicode-normalization - rust

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1.2.178 unicode-width - rust

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1.2.179 unicode-xid - rust

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1.2.180 uninitialized - rust

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encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

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programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
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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
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  "Source code" for a work means the preferred form of the work for
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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
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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
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work, in isolation, is not a derivative work of the Library, and
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Section 6 states terms for distribution of such executables.

  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
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
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of these things:

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    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
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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
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

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

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

    d) If distribution of the work is made by offering access to copy
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    e) Verify that the user has already received a copy of these
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  For an executable, the required form of the "work that uses the
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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
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1.2.184 util-linux-libs

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    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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from a designated place, then offering equivalent access to copy the
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  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
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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
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Section 6 states terms for distribution of such executables.

  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
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
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link a "work that uses the Library" with the Library to produce a
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    a) Accompany the work with the complete corresponding
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    with the Library, with the complete machine-readable "work that
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    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,
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    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
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  It may happen that this requirement contradicts the license
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1.2.185 uuid - rust

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1.2.186 vcpkg - rust

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1.2.189 wasi-0.9.0+wasi-snapshot-preview1 - rust

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1.2.192 winapi-util - rust

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