



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	1.0.1	Apache-2.0 OR MIT
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
busybox	1.33.2	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	1.0.72	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	1.3.0	Apache-2.0
clap - rust	2.34.0	MIT
coreutils	8.32	GPL-3.0+
crossbeam - rust	0.8.1	MIT OR Apache-2.0
crossbeam-channel - rust	0.5.2	MIT OR Apache-2.0
crossbeam-deque - rust	0.8.1	MIT OR Apache-2.0
crossbeam-epoch - rust	0.9.6	MIT OR Apache-2.0
crossbeam-queue - rust	0.3.3	MIT OR Apache-2.0
crossbeam-utils - rust	0.8.6	MIT OR Apache-2.0
davici	1.3	LGPL-2.1+
dejavu	2.37	BitstreamVera, Arev Fonts License
dfu-util	0.9	GPL-2.0+, LGPL-3.0
e2fsprogs	1.45.6	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

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Package	Version	Licenses
eudev	3.2.9	GPL-2.0+ (programs), LGPL-2.1+ (libraries)
expat	2.4.7	MIT
fastrand - rust	1.6.0	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	2.10.4	Dual FTL/GPL-2.0+
gawk	5.1.0	GPL-3.0+
getrandom - rust	0.2.3	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
grep	3.6	GPL-3.0+
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	69-1	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	2.0.6	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	28	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	0.2.112	MIT OR Apache-2.0
libcap	2.48	GPL-2.0 or BSD-3-Clause
libcap-ng	0.8.2	GPL-2.0+ (programs), LGPL-2.1+ (library)
libcurl	7.79.1	curl
libdrm	2.4.105	MIT
liberation	2.1.2	OFL-1.1
libevdev	1.11.0	MIT
libfdse	280ecbela2 cd5a62c7fa dc602ea525 26edca35d4	MIT
libloading - rust	0.7.2	ISC

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Package	Version	Licenses
libopenssl	1.1.1m	OpenSSL or SSLeay
libpng	1.6.37	Libpng-2.0
libpthread-stubs	0.4	MIT
libusb	1.0.24	LGPL-2.1+
libwebsockets	4.0.21	MIT with exceptions
libzlib	1.2.11	Zlib
linux	281cb0931b 9db630fa44 8620294f81 dd6a7a8b1c	GPL-2.0
log - rust	0.4.14	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	21.0.2	MIT, SGI, Khronos
minimal-lexical - rust	0.2.1	MIT/Apache-2.0
ncurses	6.1	MIT with advertising clause
newlib	v3.0.0	Various, see licenses file below.
nix - rust	0.23.1	MIT
nom - rust	7.1.0	MIT
num-integer - rust	0.1.44	MIT OR Apache-2.0
num-traits - rust	0.2.14	MIT OR Apache-2.0
optee-client	3.11.0	BSD-2-Clause
optee-os	3b54dde4d7 d192724a44 93f159f32a 748e9d9da0	BSD-2-Clause
pcre2	10.35	BSD-3-Clause
pcsc-lite	1.9.0	BSD-2-Clause (auth), BSD-3-Clause, GPL-3.0+ (demo, 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	0.3.24	MIT/Apache-2.0
ppv-lite86 - rust	0.2.16	MIT/Apache-2.0
proc-macro2 - rust	1.0.36	MIT OR Apache-2.0
publicsuffix - rust	1.5.6	MIT/Apache-2.0
qt5base	5.15.2	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5declarative	5.15.2	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5graphicaleffects	5.15.2	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
qt5quickcontrols	5.15.2	GPL-2.0 or GPL-3.0 or LGPL-3.0, GFDL-1.3 (docs)
qt5quickcontrols2	5.15.2	GPL-3.0 or LGPL-3.0, GFDL-1.3 (docs)
qt5svg	5.15.2	GPL-2.0+ or LGPL-3.0, GPL-3.0 with exception(tools), GFDL-1.3 (docs)
quote - rust	1.0.14	MIT OR Apache-2.0
quote-0.3.15 - rust	0.3.15	MIT/Apache-2.0
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Package	Version	Licenses
rand - rust	0.8.4	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	0.3.1	MIT OR Apache-2.0
rand_hc-0.2.0 - rust	0.2.0	MIT/Apache-2.0
rand_pcg - rust	0.2.1	MIT OR Apache-2.0
readline	8.1	GPL-3.0+
redox_syscall - rust	0.2.10	MIT
regex - rust	1.5.4	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
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	1.0.133	MIT OR Apache-2.0
serde_derive - rust	1.0.133	MIT OR Apache-2.0
serde_json - rust	1.0.74	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	0.3.7	MIT/Apache-2.0
squashfs	4.4	GPL-2.0+
strongswan	5.9.5	GPL-2.0+
strsim - rust	0.8.0	MIT
syn - rust	1.0.85	MIT OR Apache-2.0
syn-0.11.11 - rust	0.11.11	MIT/Apache-2.0
synom - rust	0.11.3	MIT/Apache-2.0
synstructure - rust	0.12.6	MIT
tempfile - rust	3.3.0	MIT OR Apache-2.0
termcolor - rust	1.1.2	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	2020.11	GPL-2.0+ (programs), LGPL-2.1+, BSD-3-Clause, MIT (library)
uboot	54cdb0cae2 c6d5a15833 4434aafc2f 9ceec1e818	GPL-2.0+
unicode-bidi - rust	0.3.7	MIT / Apache-2.0

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Package	Version	Licenses
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
unicode-xid-0.0.4 - rust	0.0.4	MIT/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
vec_map - rust	0.8.2	MIT/Apache-2.0
version_check - rust	0.9.4	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	4.2.2	MIT
winapi - rust	0.3.9	MIT/Apache-2.0
winapi-util - rust	0.1.5	Unlicense/MIT
zeroize - rust	1.4.3	Apache-2.0 OR MIT
zeroize_derive - rust	1.2.2	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 base64 - rust

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1.2.8 bindgen - rust

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1.2.9 bitflags - rust

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1.2.10 bitstream-vera

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3. Are derivative works allowed?
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4. Can I change or add to the font(s)?
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5. Under what terms are derivative works allowed?

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

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7. I want to sell a software package that uses these fonts: Can I do so?

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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?

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1.2.11 busybox

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

1.2.12 byteorder - rust

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1.2.13 bzip2

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.2.14 cantarell

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1.2.15 cbindgen - rust

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That's all there is to it!

1.2.18 cexpr - rust

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1.2.19 cfg-if - rust

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1.2.21 clang-sys - rust

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1.2.22 clap - rust

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1.2.23 coreutils

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1.2.24 crossbeam - rust

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1.2.28 crossbeam-queue - rust

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1.2.29 crossbeam-utils - rust

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That's all there is to it!

1.2.31 dejavu

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\$Id\$

1.2.32 dfu-util

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```
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1.2.33 e2fsprogs

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Theodore Ts'o
23-June-2007

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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
```

1.2.34 either - rust

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1.2.35 env_logger - rust

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1.2.36 eudev

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1.2.38 fastrand - rust

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1.2.40 form_urlencoded - rust

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1.2.41 freetype

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1.2.42 gawk

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1.2.43 getrandom - rust

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1.2.44 getrandom-0.1.16 - rust

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1.2.46 glob - rust

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1.2.47 gpio - rust

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1.2.48 grep

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1.2.49 hermit-abi - rust

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1.2.50 hex - rust

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1.2.51 humantime - rust

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1.2.52 i2c-linux - rust

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1.2.54 icu

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1.2.59 jpeg-turbo

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libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README.md for information specific to libjpeg-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.
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.
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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.

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 achieved that goal in every aspect of the software, but we strive for it.

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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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, 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. 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

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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

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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.

TO DO

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

1.2.60 jq

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1.2.61 json-pointer - rust

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1.2.62 jsonway - rust

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1.2.63 kmod

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1.2.64 lazy_static - rust

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1.2.65 lazycell - rust

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1.2.66 lib - rust

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```

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1.2.68 libcap-ng

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1.2.69 libcurl

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1.2.70 libdrm

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1.2.72 libevdev

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1.2.73 libifdse

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1.2.74 libloading - rust

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1.2.75 libopenssl

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1.2.77 libpthread-stubs

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1.2.79 libwebsockets

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1.2.80 libzlib

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/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>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto: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>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs' Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 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>](mailto: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>](mailto: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>](mailto: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 (formerly 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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1.2.81 linux

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1.2.82 log - rust

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1.2.83 matches - rust

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1.2.84 mbed TLS

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1.2.85 memchr - rust

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1.2.86 memoffset - rust

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1.2.87 mesa3d

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1.2.88 minimal-lexical - rust

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1.2.91 nix - rust

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1.2.92 nom - rust

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1.2.93 num-integer - rust

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1.2.94 num-traits - rust

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1.2.95 optee-client

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1.2.97 pcre2

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1.2.99 peeking_take_while - rust

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1.2.100 percent-encoding - rust

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1.2.101 pkg-config - rust

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1.2.102 ppv-lite86 - rust

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1.2.103 proc-macro2 - rust

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1.2.105 qt5base

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```

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```
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```

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```
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```

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

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```

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

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

```
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
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```

```
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with this program; if not, write to the Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
```

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

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

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

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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The precise terms and conditions for copying, distribution and modification follow.

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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.

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- 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

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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.

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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.

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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 copy the object code is a network server, the Corresponding Source

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```
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```

```
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```

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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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Version 3, 29 June 2007

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1.2.112 quote-0.3.15 - rust

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1.2.113 rand - rust

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1.2.114 rand-0.7.3 - rust

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1.2.115 rand_chacha - rust

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1.2.116 rand_chacha-0.2.2 - rust

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1.2.117 rand_core - rust

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1.2.118 rand_core-0.5.1 - rust

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1.2.119 rand_hc - rust

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1.2.120 rand_hc-0.2.0 - rust

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1.2.121 rand_pcg - rust

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1.2.122 **readline**

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1.2.123 redox_syscall - rust

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```

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1.2.125 regex-syntax - rust

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1.2.126 remove_dir_all - rust

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1.2.127 resize-slice - rust

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1.2.128 rustc-hash - rust

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1.2.130 scopeguard - rust

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1.2.131 serde - rust

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1.2.132 serde_derive - rust

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1.2.133 serde_json - rust

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1.2.134 shlex - rust

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1.2.135 signal-hook - rust

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1.2.136 signal-hook-registry - rust

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1.2.137 siphasher - rust

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1.2.138 squashfs

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1.2.140 strsim - rust

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1.2.141 syn - rust

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1.2.142 syn-0.11.11 - rust

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1.2.143 synom - rust

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1.2.144 synstructure - rust

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1.2.145 tempfile - rust

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1.2.146 termcolor - rust

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1.2.147 textwrap - rust

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1.2.148 tinyvec - rust

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1.2.149 tinyvec_macros - rust

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1.2.150 toml - rust

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1.2.151 toolchain-external-arm-aarch64

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1.2.153 unicode-bidi - rust

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1.2.154 unicode-normalization - rust

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1.2.156 unicode-xid - rust

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1.2.157 unicode-xid-0.0.4 - rust

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1.2.158 uninitialized - rust

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1.2.159 uritemplate-next - rust

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1.2.160 url - rust

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

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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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1.2.162 util-linux-libs

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```

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Ty Coon, President of Vice
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That's all there is to it!

1.2.163 uuid - rust

```
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1.2.164 vec_map - rust

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1.2.165 version_check - rust

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1.2.166 wasi - rust

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1.2.167 wasi-0.9.0+wasi-snapshot-preview1 - rust

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1.2.168 which - rust

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1.2.169 winapi - rust

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1.2.170 winapi-util - rust

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1.2.171 zeroize - rust

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1.2.172 zeroize_derive - rust

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