

R&S®SMBV100B

Vector Signal Generator

Open Source Acknowledgment



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Version 14.00

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1 Introduction

This product uses a number of open source software packages which are listed in the section "[Software packages](#)" on page 6.

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2 Software packages

- ▶ The software contained in this product makes use of the following open source software packages.

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abbrev	1.1.1	ISC License
acorn	7.4.1	MIT License
acorn	8.7.0	MIT License
acorn-globals	6.0.0	MIT License
acorn-import-assertions	1.8.0	MIT License
acorn-jsx	5.3.2	MIT License
acorn-walk	7.2.0	MIT License
agent-base	6.0.2	MIT License
agentkeepalive	4.2.1	MIT License
aggregate-error	3.1.0	MIT License
ajv	6.12.6	MIT License
ajv	8.9.0	MIT License
ajv-formats	2.1.1	MIT License
ajv-keywords	3.5.2	MIT License
amproject/remapping	2.1.2	Apache License 2.0
angular-devkit/architect	0.1302.6	MIT License
angular-devkit/core	13.2.6	MIT License
angular-devkit/schematics	13.2.6	MIT License
angular/animations	13.2.7	MIT License
angular/cdk	13.3.1	MIT License
angular/cli	13.2.6	MIT License
angular/common	13.2.7	MIT License
angular/compiler	13.2.7	MIT License
angular/core	13.2.7	MIT License
angular/elements	13.3.0	MIT License

Package	Version	License
angular/forms	13.2.7	MIT License
angular/platform-browser	13.2.7	MIT License
angular/platform-browser-dynamic	13.2.7	MIT License
angular/router	13.2.7	MIT License
ansi-colors	4.1.1	MIT License
ansi-escapes	4.3.2	MIT License
ansi-regex	5.0.1	MIT License
ansi-styles	3.2.1	MIT License
ansi-styles	4.3.0	MIT License
ansi-styles	5.2.0	MIT License
anymatch	3.1.2	ISC License
aproba	2.0.0	ISC License
arch	2.2.0	MIT License
are-we-there-yet	3.0.0	ISC License
arg	4.1.3	MIT License
argparse	1.0.10	MIT License
argparse	2.0.1	Python License 2.0
ARM CMSIS	5.0.1	Apache License 2.0
ASN.1 Compiler	1.0	BSD 2-clause "Simplified" License
asn1	0.2.6	MIT License
assert-plus	1.0.0	MIT License
astral-regex	2.0.0	MIT License
async	3.2.4	MIT License
asynckit	0.4.0	MIT License
at-least-node	1.0.0	ISC License
Atmel SAM3U DFP	1.0.49	BSD 1-Clause License
avahi	0.8	GPL-2.0-or-later License AND LGPL-2.1-or-later License
Awesome Prometheus Alerts	06ae149603fba276456452ed618d1d99dca3174d	Creative Commons Attribution 4.0
aws-sign2	0.7.0	Apache License 2.0
aws4	1.12.0	MIT License

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babel-jest	27.5.1	MIT License
babel-loader	8.2.3	MIT License
babel-plugin-dynamic-import-node	2.3.3	MIT License
babel-plugin-istanbul	6.1.1	BSD 3-clause "New" or "Revised" License
babel-plugin-jest-hoist	27.5.1	MIT License
babel-plugin-polyfill-corejs2	0.3.1	MIT License
babel-plugin-polyfill-corejs3	0.5.2	MIT License
babel-plugin-polyfill-regenerator	0.3.1	MIT License
babel-preset-current-node-syntax	1.0.1	MIT License
babel-preset-jest	27.5.1	MIT License
babel/code-frame	7.18.6	MIT License
babel/compat-data	7.17.7	MIT License
babel/core	7.17.8	MIT License
babel/generator	7.21.1	MIT License
babel/helper-annotate-as-pure	7.16.7	MIT License
babel/helper-annotate-as-pure	7.18.6	MIT License
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babel/helper-environment-visitor	7.18.9	MIT License
babel/helper-explode-assignable-expression	7.16.7	MIT License
babel/helper-function-name	7.21.0	MIT License
babel/helper-hoist-variables	7.18.6	MIT License
babel/helper-member-expression-to-functions	7.21.0	MIT License
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babel/helpers	7.17.8	MIT License
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babel/parser	7.21.2	MIT License
babel/plugin-bugfix-safari-id-destructuring-collision-in-function-expression	7.16.7	MIT License
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babel/plugin-proposal-optional-catch-binding	7.16.7	MIT License
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babel/plugin-transform-typeof-symbol	7.16.7	MIT License
babel/plugin-transform-unicode-escapes	7.16.7	MIT License
babel/plugin-transform-unicode-regex	7.16.7	MIT License
babel/preset-env	7.16.11	MIT License
babel/preset-modules	0.1.5	MIT License
babel/runtime	7.16.7	MIT License
babel/template	7.16.7	MIT License
babel/template	7.20.7	MIT License
babel/traverse	7.21.2	MIT License
babel/types	7.21.2	MIT License
balanced-match	1.0.2	MIT License
base-files	3.0.14	GPL-2.0-only License
base-passwd	3.5.29	GPL-2.0-only License
base64-js	1.5.1	MIT License
bcoe/v8-coverage	0.2.3	MIT License
bcrypt-pbkdf	1.0.2	BSD 3-clause "New" or "Revised" License
big.js	5.2.2	MIT License
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binutils	2.38	GPL-3.0-only License
bl	4.1.0	MIT License
blob-util	2.0.2	Apache License 2.0
bluebird	3.7.1	MIT License
bluebird	3.7.2	MIT License

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botan	2.19.3	BSD 2-clause "Simplified" License
brace-expansion	1.1.11	MIT License
brace-expansion	2.0.1	MIT License
braces	3.0.2	MIT License
brotli	1.0.9	MIT License
browser-process-hrtime	1.0.0	BSD 2-clause "Simplified" License
browserslist	4.20.2	MIT License
bser	2.1.1	Apache License 2.0
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buffer-crc32	0.2.13	MIT License
buffer-from	1.1.2	MIT License
builtins	1.0.3	MIT License
busybox	1.35.0	GPL-2.0-only License AND bzip2 License
bzip2	1.0.8	bzip2 and libbzip2 License
bzip2	1.0.8	bzip2 License
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cacache	16.0.3	ISC License
cachedir	2.3.0	MIT License
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callsites	3.1.0	MIT License
camelcase	5.3.1	MIT License
camelcase	6.3.0	MIT License
caniuse-lite	1.0.30001320	Creative Commons Attribution 4.0
caseless	0.12.0	Apache License 2.0
chalk	2.4.2	MIT License
chalk	4.1.0	MIT License
chalk	4.1.2	MIT License
char-regex	1.0.2	MIT License

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ci-info	3.3.0	MIT License
cifs-utils	6.14	GPL-3.0-only License AND LGPL-3.0-only License
cjs-module-lexer	1.2.2	MIT License
classlist.js	1.1.20150312	Public Domain
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cli-width	3.0.0	ISC License
cliui	6.0.0	ISC License
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color-name	1.1.4	MIT License
color-support	1.1.3	ISC License

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commander	5.1.0	MIT License
common-tags	1.8.2	MIT License
comondir	1.0.1	MIT License
concat-map	0.0.1	MIT License
console-control-strings	1.1.0	ISC License
convert-source-map	1.8.0	MIT License
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core-js-compat	3.21.1	MIT License
core-util-is	1.0.2	MIT License
cosmiconfig	6.0.0	MIT License
cpprest	2.10.18	MIT License
cppzmq	4.7.1	MIT License
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cross-spawn	7.0.3	MIT License
cssom	0.3.8	MIT License
cssom	0.4.4	MIT License
cssstyle	2.3.0	MIT License
curl	7.73.0.0	curl License
curl	7.82.0.0	curl License
curl	7.82.0	curl License
Curl	7.87.0	curl License
cypress	12.7.0	MIT License
cypress/request	2.88.11	Apache License 2.0
cypress/schematic	2.5.0	MIT License
cypress/webpack-preprocessor	5.17.0	MIT License
cypress/xvfb	1.2.4	MIT License

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data-urls	2.0.0	MIT License
dayjs	1.11.7	MIT License
dbus	1.14.6	Academic Free License v2.1 OR GPL-2.0-or-later License
DCPLib	0.2	BSD 3-clause "New" or "Revised" License
debug	3.2.7	MIT License
debug	4.3.3	MIT License
debug	4.3.4	MIT License
decamelize	1.2.0	MIT License
decimal.js	10.3.1	MIT License
dedent	0.7.0	MIT License
deep-is	0.1.4	MIT License
deepmerge	4.2.2	MIT License
defaults	1.0.3	MIT License
define-lazy-prop	2.0.0	MIT License
define-properties	1.1.3	MIT License
delayed-stream	1.0.0	MIT License
delegates	1.0.0	MIT License
depd	1.1.2	MIT License
detect-newline	3.1.0	MIT License
dialog	1.3-20210509	LGPL-2.1-only License
diff	4.0.2	BSD 3-clause "New" or "Revised" License
diff-sequences	27.5.1	MIT License
dmidecode	3.3	GPL-2.0-only License
Docker-compose stack for Prometheus monitoring	ae31b4743bf11a9ff59a88edc0197f36e2e3eb21	MIT License
doctrine	3.0.0	Apache License 2.0
domexception	2.0.1	MIT License
dofstools	4.2	GPL-3.0-only License
dotenv	10.0.0	BSD 2-clause "Simplified" License
double-conversion (V8 project)	unspecific	BSD 3-clause "New" or "Revised" License

Package	Version	License
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e-wm-16	1.0.13	Enlightenment License (e16)
e2fsprogs	1.46.1	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
e2fsprogs	1.46.5	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
ecc-jsbn	0.1.2	MIT License
Eigen	3.4.0	Mozilla Public License 2.0
ejs	3.1.8	Apache License 2.0
electron-to-chromium	1.4.92	ISC License
elfutils	0.186	GPL-2.0-only License AND GPL-2.0-or-later License AND LGPL-3.0-or-later License AND GPL-3.0-or-later License
emittery	0.8.1	MIT License
emoji-regex	8.0.0	MIT License
emojis-list	3.0.0	MIT License
encoding	0.1.13	MIT License
encodings	1.0.6	Public Domain
end-of-stream	1.4.4	MIT License
enhanced-resolve	5.9.2	MIT License
enquirer	2.3.6	MIT License
env-paths	2.2.1	MIT License
err-code	2.0.3	MIT License
error-ex	1.3.2	MIT License
es-module-lexer	0.9.3	MIT License
escalade	3.1.1	MIT License
escape-string-regexp	1.0.5	MIT License

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escape-string-regexp	2.0.0	MIT License
escape-string-regexp	4.0.0	MIT License
escodegen	2.0.0	BSD 2-clause "Simplified" License
eslint	8.7.0	MIT License
eslint-scope	5.1.1	BSD 2-clause "Simplified" License
eslint-scope	7.1.1	BSD 2-clause "Simplified" License
eslint-utils	3.0.0	MIT License
eslint-visitor-keys	2.1.0	Apache License 2.0
eslint-visitor-keys	3.3.0	Apache License 2.0
eslint/eslintrc	1.2.1	MIT License
espre	9.3.1	BSD 2-clause "Simplified" License
esprima	4.0.1	BSD 2-clause "Simplified" License
esquery	1.4.0	BSD 3-clause "New" or "Revised" License
esrecurse	4.3.0	BSD 2-clause "Simplified" License
estraverse	4.3.0	BSD 2-clause "Simplified" License
estraverse	5.3.0	BSD 2-clause "Simplified" License
esutils	2.0.3	BSD 2-clause "Simplified" License
eventemitter2	6.4.7	MIT License
events	3.3.0	MIT License
execa	4.1.0	MIT License
execa	5.1.1	MIT License
executable	4.1.1	MIT License
exit	0.1.2	MIT License
expat	2.5.0	MIT License
Expat XML Parser Toolkit	2.4.8	MIT License
expect	27.5.1	MIT License
extend	3.0.2	MIT License
external-editor	3.1.0	MIT License
extract	0.9	BSD 2-Clause License AND GPL-2.0-or-later License
extract-zip	2.0.1	BSD 2-clause "Simplified" License
extsprintf	1.3.0	MIT License

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fast-deep-equal	3.1.3	MIT License
fast-glob	3.2.7	MIT License
fast-json-stable-stringify	2.1.0	MIT License
fast-levenshtein	2.0.6	MIT License
fastq	1.13.0	ISC License
fb-watchman	2.0.1	Apache License 2.0
fd-slicer	1.1.0	MIT License
figures	3.2.0	MIT License
file-entry-cache	6.0.1	MIT License
file-saver	2.0.5	MIT License
filelist	1.0.4	Apache License 2.0
fill-range	7.0.1	MIT License
find-cache-dir	3.3.2	MIT License
find-up	4.1.0	MIT License
flashrom	1.2	GPL-2.0-or-later License
flat	5.0.2	BSD 3-clause "New" or "Revised" License
flat-cache	3.0.4	MIT License
flatbuffers	1.12.0	Apache License 2.0
flatted	3.2.5	ISC License
fmt	8.1.1	MIT License with optional exception
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fork-ts-checker-webpack-plugin	6.2.10	MIT License
form-data	2.3.3	MIT License
form-data	3.0.1	MIT License

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formfactor	0.0	MIT License
FreeRTOS	10.0.1	MIT License
FreeRTOS	10.5.0	MIT License
freetype	2.11.1	Freetype Project License OR GPL-2.0-or-later License
fs-extra	9.1.0	MIT License
fs-minipass	2.1.0	ISC License
fs-monkey	1.0.3	The Unlicense
fs.realpath	1.0.0	ISC License
function-bind	1.1.1	MIT License
functional-red-black-tree	1.0.1	MIT License
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gauge	4.0.3	ISC License
gcc-runtime	11.3.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1
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get-intrinsic	1.1.1	MIT License
get-package-type	0.1.0	MIT License
get-stream	5.2.0	MIT License
get-stream	6.0.1	MIT License
getos	3.2.1	MIT License
getpass	0.1.7	MIT License
glib-2.0	2.72.3	LGPL-2.1-or-later License AND BSD 3-Clause License AND Public Domain
glibc	2.35	GPL-2.0-only License AND LGPL-2.1-only License

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glob	7.2.0	ISC License
glob-parent	5.1.2	ISC License
glob-parent	6.0.2	ISC License
glob-to-regexp	0.4.1	BSD 2-clause "Simplified" License
global-dirs	3.0.1	MIT License
globals	11.12.0	MIT License
globals	13.13.0	MIT License
gmp	6.2.1	GPL-2.0-or-later License OR LGPL-3.0-or-later License
gnutils	3.7.4	GPL-3.0-or-later License AND LGPL-2.1-or-later License
Google commandline flags module for C++	2.2.2	BSD 3-clause "New" or "Revised" License
Google Protobuf protocol buffers library	2.6.1	BSD 3-clause "New" or "Revised" License
Google Protobuf protocol buffers library	3.17.1 & 3.19.2	BSD 3-clause "New" or "Revised" License
google/flatbuffers	Github commit 23bb57401c6ac aa6f9e983e6eb7 a687527b68af6	Apache License 2.0
googlebenchmark	1.6.1	Apache License 2.0
googletest	1.13.0	BSD 3-clause "New" or "Revised" License
gperftools	2.9.1	BSD 3-Clause License
graceful-fs	4.2.9	ISC License
Grafana	9.2.6	GNU Affero General Public License v3.0
grub	2.04+2.06~rc1	GPL-3.0-only License
grub	2.06	GPL-3.0-only License
harmony-reflect	1.6.2	((Apache-2.0 OR Mozilla Public License Version 1.1)
has	1.0.3	MIT License
has-flag	3.0.0	MIT License
has-flag	4.0.0	MIT License
has-symbols	1.0.3	MIT License

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haveged	1.9.18	GPL-3.0-only License
hdparm	9.63	BSD 2-Clause License AND GPL-2.0-only License AND hdparm License
hosted-git-info	4.1.0	ISC License
html-encoding-sniffer	2.0.1	MIT License
html-escaper	2.0.2	MIT License
htop	3.1.2	GPL-2.0-only License
http-cache-semantics	4.1.0	BSD 2-clause "Simplified" License
http-proxy-agent	4.0.1	MIT License
http-proxy-agent	5.0.0	MIT License
http-signature	1.3.6	MIT License
https-proxy-agent	5.0.0	MIT License
human-signals	1.1.1	Apache License 2.0
human-signals	2.1.0	Apache License 2.0
humanize-ms	1.2.1	MIT License
humanwhocodes/config-array	0.9.5	Apache License 2.0
humanwhocodes/object-schema	1.2.1	BSD 3-clause "New" or "Revised" License
iconv-lite	0.4.24	MIT License
iconv-lite	0.6.3	MIT License
icu	70.1	ICU License
identity-obj-proxy	3.0.0	MIT License
ieee754	1.2.1	BSD 3-clause "New" or "Revised" License
ifplugd	0.28	GPL-2.0-only License
ignore	5.2.0	MIT License
ignore-walk	4.0.1	ISC License
imlib2	1.7.1	Imlib2 License
import-fresh	3.3.0	MIT License
imurmurhash	0.1.4	MIT License
indent-string	4.0.0	MIT License

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inflight	1.0.6	ISC License
inherits	2.0.4	ISC License
ini	2.0.0	ISC License
inquirer	8.2.0	MIT License
ip	1.1.5	MIT License
iptables	1.8.7	GPL-2.0-or-later License
is-arrayish	0.2.1	MIT License
is-binary-path	2.1.0	MIT License
is-ci	3.0.1	MIT License
is-core-module	2.8.1	MIT License
is-docker	2.2.1	MIT License
is-extglob	2.1.1	MIT License
is-fullwidth-code-point	3.0.0	MIT License
is-generator-fn	2.1.0	MIT License
is-glob	4.0.3	MIT License
is-installed-globally	0.4.0	MIT License
is-interactive	1.0.0	MIT License
is-lambda	1.0.1	MIT License
is-number	7.0.0	MIT License
is-path-inside	3.0.3	MIT License
is-plain-object	2.0.4	MIT License
is-potential-custom-element-name	1.0.1	MIT License
is-stream	2.0.1	MIT License
is-typedarray	1.0.0	MIT License
is-unicode-supported	0.1.0	MIT License
is-wsl	2.2.0	MIT License
isexe	2.0.0	ISC License
isobject	3.0.1	MIT License
isstream	0.1.2	MIT License

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istanbul-lib-instrument	5.1.0	BSD 3-clause "New" or "Revised" License
istanbul-lib-report	3.0.0	BSD 3-clause "New" or "Revised" License
istanbul-lib-source-maps	4.0.1	BSD 3-clause "New" or "Revised" License
istanbul-reports	3.1.4	BSD 3-clause "New" or "Revised" License
istanbuljs/load-nyc-config	1.1.0	ISC License
istanbuljs/schema	0.1.3	MIT License
jake	10.8.5	Apache License 2.0
jansson	2.13.1	MIT License
jasmine-marbles	0.8.4	MIT License
jbig2dec	0.17	AGPL-3.0-or-later License
jest-circus	27.5.1	MIT License
jest-config	27.2.2	MIT License
jest-diff	27.5.1	MIT License
jest-docblock	27.5.1	MIT License
jest-each	27.5.1	MIT License
jest-environment-jsdom	27.5.1	MIT License
jest-environment-node	27.5.1	MIT License
jest-get-type	27.5.1	MIT License
jest-haste-map	27.5.1	MIT License
jest-jasmine2	27.5.1	MIT License
jest-leak-detector	27.5.1	MIT License
jest-matcher-utils	27.5.1	MIT License
jest-message-util	27.5.1	MIT License
jest-mock	27.5.1	MIT License
jest-pnp-resolver	1.2.2	MIT License
jest-regex-util	27.5.1	MIT License

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jest-resolve	27.5.1	MIT License
jest-runner	27.5.1	MIT License
jest-runtime	27.5.1	MIT License
jest-serializer	27.5.1	MIT License
jest-snapshot	27.5.1	MIT License
jest-util	27.2.0	MIT License
jest-util	27.5.1	MIT License
jest-validate	27.5.1	MIT License
jest-worker	27.5.1	MIT License
jest/console	27.5.1	MIT License
jest/environment	27.5.1	MIT License
jest/fake-timers	27.5.1	MIT License
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jest/reporters	27.2.2	MIT License
jest/source-map	27.5.1	MIT License
jest/test-result	27.2.2	MIT License
jest/test-result	27.5.1	MIT License
jest/test-sequencer	27.5.1	MIT License
jest/transform	27.5.1	MIT License
jest/types	27.5.1	MIT License
jrldgewell/gen-mapping	0.3.2	MIT License
jrldgewell/resolve-uri	3.1.0	MIT License
jrldgewell/set-array	1.1.2	MIT License
jrldgewell/source-map-codec	1.4.14	MIT License
jrldgewell/trace-mapping	0.3.17	MIT License
js-tokens	4.0.0	MIT License
js-yaml	3.14.1	MIT License
js-yaml	4.1.0	MIT License
jsbn	0.1.1	MIT License

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jsdom	16.7.0	MIT License
jsesc	0.5.0	MIT License
jsesc	2.5.2	MIT License
json-parse-better-errors	1.0.2	MIT License
json-parse-even-better-errors	2.3.1	MIT License
json-schema	0.4.0	((AFL-2.1 OR BSD 3-clause "New" or "Revised" License)
json-schema-traverse	0.4.1	MIT License
json-schema-traverse	1.0.0	MIT License
json-stable-stringify-without-jsonify	1.0.1	MIT License
json-stringify-safe	5.0.1	ISC License
json5	1.0.1	MIT License
json5	2.2.3	MIT License
jsonc-parser	3.0.0	MIT License
jsonfile	6.1.0	MIT License
jsonparse	1.3.1	MIT License
jsprim	2.0.2	MIT License
kind-of	6.0.3	MIT License
kissfft	1.0	BSD 3-clause "New" or "Revised" License
kmod	29	GPL-2.0-or-later License AND LGPL-2.1-or-later License
krb5	1.17.2	MIT License
lazy-ass	1.6.0	MIT License
lcms	2.13.1	MIT License
leven	3.1.0	MIT License
levn	0.3.0	MIT License
levn	0.4.1	MIT License
libarchive	3.6.2	BSD 2-Clause License
libcap	2.66	BSD 3-Clause License OR GPL-2.0-only License

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libedit	20210910-3.1	BSD 3-Clause License
libepoxy	1.5.10	MIT License
libev	4.33	BSD 2-Clause License OR GPL-2.0-or-later License
libevdev	1.12.1	MIT License
libevent	2.1.12	BSD 3-Clause License AND MIT License
libfdt	0.20	GNU General Public License v1.0
libffi	3.4.4	MIT License
libfontenc	1.1.4	MIT License
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libgcrypt	1.9.4	GPL-2.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
libglu	9.0.2	MIT License
libgpg-error	1.44	GPL-2.0-or-later License AND LGPL-2.1-or-later License
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libldb	2.3.4	LGPL-3.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
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libnsl2	2.0.0	LGPL-2.1-only License

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libpcre	8.45	BSD 3-Clause License
libpcre2	10.40	BSD 3-Clause License
libpng	1.6.39	libpng License
libsm	1.2.3	MIT License
libsodium	1.0.18	ISC License
libtalloc	2.3.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtdb	1.4.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtevent	0.10.2	LGPL-3.0-or-later License
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libunistring	1.0	LGPL-3.0-or-later License OR GPL-2.0-or-later License
libunwind	1.6.2	MIT License
liburcu	0.13.2	LGPL-2.1-or-later License AND MIT License
libusb-compat	0.1.7	GNU Lesser General Public License v2.1
libusb1	1.0.26	LGPL-2.1-or-later License
libvncserver	0.9.13	GPL-2.0-only License
libx11	1.7.3.1	MIT License AND MIT License AND BSD-1-Clause License AND Historical Permission Notice and Disclaimer AND HPND-sell-variant License
libxau	1.0.9	MIT License
libxaw	1.0.14	MIT License
libxcb	1.14	MIT License
libxcomposite	0.4.5	MIT License
libxcrypt	4.4.30	LGPL-2.1-only License
libxcvt	0.1.1	MIT License
libxdamage	1.1.5	MIT License
libxdmcp	1.1.3	MIT License
libxext	1.3.4	MIT License

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libxfont2	2.0.5	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
libxft	2.3.4	MIT License
libxi	1.8	MIT License AND MIT License AND
libxinerama	1.1.4	MIT License
libxkbcommon	1.4.1	MIT License AND MIT License AND
libxkbfile	1.1.0	MIT License
libxml2	2.9.14	MIT License
libxmu	1.1.3	MIT License AND MIT License AND
libxpm	3.5.15	MIT License
libxrandr	1.5.2	MIT License
libxrender	0.9.10	MIT License
libxshmfence	1.3	Historical Permission Notice and Disclaimer
libxt	1.2.1	MIT License AND MIT License AND
libxtst	1.2.3	MIT License
libxxf86vm	1.1.4	MIT License
lines-and-columns	1.2.4	MIT License
linux	5.10	GPL-2.0-only License
linux-firmware-radeon	1.0	Firmware-and License
listr2	3.14.0	MIT License
lit	2.4.0	BSD 3-clause "New" or "Revised" License
lit-element	3.2.2	BSD 3-clause "New" or "Revised" License
lit-html	2.4.0	BSD 3-clause "New" or "Revised" License
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lit-labs/scoped-registry-mixin	1.0.1	BSD 3-clause "New" or "Revised" License
lit/reactive-element	1.4.1	BSD 3-clause "New" or "Revised" License

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loader-runner	4.2.0	MIT License
loader-utils	1.4.0	MIT License
locate-path	5.0.0	MIT License
lodash	4.17.21	MIT License
lodash.debounce	4.0.8	MIT License
lodash.merge	4.6.2	MIT License
lodash.once	4.1.1	MIT License
log-symbols	4.1.0	MIT License
log-update	4.0.0	MIT License
lpkit-udev-common	1.0	MIT License
lru-cache	6.0.0	ISC License
lru-cache	7.7.1	ISC License
lsof	4.94.0	Spencer-94 License
lttng-ust	2.13.5	LGPL-2.1-or-later License AND MIT License AND GPL-2.0-only License
lwIP	2.1.2	BSD 3-clause "New" or "Revised" License
lzo	2.10	GPL-2.0-or-later License
magic-string	0.25.7	MIT License
make-dir	3.1.0	MIT License
make-error	1.3.6	ISC License
make-fetch-happen	10.0.6	ISC License
make-fetch-happen	9.1.0	ISC License
makeerror	1.0.12	BSD 3-clause "New" or "Revised" License
mbed TLS	2.16.1	Apache License 2.0
mbed TLS	3.2.1	Apache License 2.0
mbedtls	3.1.0	Apache License 2.0
MD4 (RFC 1320) Message-Digest Algorithm	unspecific	MD4 license

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MD5 (RFC 1321) Message-Digest Algorithm	unspecific	RSA Message-Digest License
memfs	3.4.1	The Unlicense
merge-stream	2.0.0	MIT License
merge2	1.4.1	MIT License
mesa	22.0.3	MIT License
mhdfs	0.1.39+git	GPL-3.0-or-later License
micromatch	4.0.4	MIT License
mime-db	1.52.0	MIT License
mime-types	2.1.35	MIT License
mimic-fn	2.1.0	MIT License
minimatch	3.0.4	ISC License
minimatch	5.1.6	ISC License
minimist	1.2.6	MIT License
minipass	3.1.6	ISC License
minipass-collect	1.0.2	ISC License
minipass-fetch	1.4.1	MIT License
minipass-fetch	2.0.3	MIT License
minipass-flush	1.0.5	ISC License
minipass-json-stream	1.0.1	MIT License
minipass-pipeline	1.2.4	ISC License
minipass-sized	1.0.3	ISC License
minizip	2.9.3	zlib License
minizlib	2.1.2	MIT License
mkdirp	1.0.4	MIT License
mkfontscale	1.2.2	MIT License
ms	2.1.2	MIT License
mtdev	1.1.6	MIT License
mtrace-ng	1.0	GPL-2.0-only License
mupdf	1.15.0	AGPL-3.0-only License
musl-libc	1.1.16	MIT License
mute-stream	0.0.8	ISC License

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natural-compare	1.4.0	MIT License
ncurses	6.3+20220423	MIT License
ncurses	6.3	MIT License
negotiator	0.6.3	MIT License
neo-async	2.6.2	MIT License
net-snmp	5.9.3	BSD 3-Clause License AND MIT License
netbase	6.3	GPL-2.0-only License
nettle	3.7.3	LGPL-3.0-or-later License OR GPL-2.0-or-later License
nfs-utils	2.6.1	MIT License AND GPL-2.0-or-later License AND BSD 3-Clause License
nghttp2	1.47.0	MIT License
Nghttp2: HTTP/2 C Library	1.39.90	MIT License
nginx	1.20.1	BSD 2-Clause License
ngrx/store	13.2.0	MIT License
ngx-translate/ core	13.0.0	MIT License
ngx-translate/ http-loader	6.0.0	MIT License
Node Exporter	1.5.0	Apache License 2.0
Node Exporter Full Dashboard	schema version 37	Apache License 2.0
node-addon-api	3.2.1	MIT License
node-gyp	8.4.1	MIT License
node-gyp-build	4.3.0	MIT License
node-int64	0.4.0	MIT License
node-releases	2.0.2	MIT License
nodelib/fs.scan- dir	2.1.5	MIT License
nodelib/fs.stat	2.0.5	MIT License
nodelib/fs.walk	1.2.8	MIT License
nopt	5.0.0	ISC License
normalize-path	3.0.0	MIT License

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NotoSansUI-BoldItalic	1.06	SIL Open Font License 1.1
NotoSansUI-Italic	1.06	SIL Open Font License 1.1
NotoSansUI-Regular	1.06	SIL Open Font License 1.1
novnc	1.3.0+git	MPL-2.0 License AND BSD 2-Clause License AND BSD 3-Clause License AND SIL Open Font License 1.1 AND CC-BY-3.0 License AND MIT License
npm-bundled	1.1.2	ISC License
npm-install-checks	4.0.0	BSD 2-clause "Simplified" License
npm-normalize-package-bin	1.0.1	ISC License
npm-package-arg	8.1.5	ISC License
npm-packlist	3.0.0	ISC License
npm-pick-manifest	6.1.1	ISC License
npm-registry-fetch	12.0.2	ISC License
npm-run-path	4.0.1	MIT License
npmcli/fs	1.1.1	ISC License
npmcli/fs	2.1.0	ISC License
npmcli/git	2.1.0	ISC License
npmcli/installed-package-contents	1.0.7	ISC License
npmcli/move-file	1.1.2	MIT License
npmcli/node-gyp	1.0.3	ISC License
npmcli/promise-spawn	1.3.2	ISC License
npmcli/run-script	2.0.0	ISC License
npmlog	6.0.1	ISC License
nrwl/angular	13.9.4	MIT License

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nrwl/cypress	13.9.4	MIT License
nrwl/devkit	13.9.4	MIT License
nrwl/jest	13.9.4	MIT License
nrwl/linter	13.9.4	MIT License
nrwl/storybook	13.9.4	MIT License
nrwl/tao	13.9.4	MIT License
nrwl/workspace	13.9.4	MIT License
nspr	4.29	GPL-2.0-only License OR MPL-2.0 License OR LGPL-2.1-only License
nss	3.74	(IMPL-2.0 License AND MIT License)) OR (IMPL-2.0 License AND GPL-2.0-or-later License AND MIT License)) OR (IMPL-2.0 License AND LGPL-2.1-or-later License AND MIT License)) OR
nwsapi	2.2.0	MIT License
nx	13.9.4	MIT License
object-inspect	1.12.3	MIT License
object-keys	1.1.1	MIT License
object.assign	4.1.2	MIT License
once	1.4.0	ISC License
onetime	5.1.2	MIT License
open	8.4.0	MIT License
openjpeg	2.4.0	BSD 2-Clause License
OpenSSL	1.1.1m	OpenSSL License
OpenSSL	1.1.1n	OpenSSL License
OpenSSL	3.0.0	Apache License 2.0
openssl	3.0.9	Apache License 2.0
OpenSSL cryptographic library	3.0.7	Apache License 2.0
optionator	0.8.3	MIT License
optionator	0.9.1	MIT License

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os-release	1.0	MIT License
os-tmpdir	1.0.2	MIT License
ospath	1.2.2	MIT License
p-limit	2.3.0	MIT License
p-locate	4.1.0	MIT License
p-map	4.0.0	MIT License
p-try	2.2.0	MIT License
pacote	12.0.3	ISC License
parcel/watcher	2.0.4	MIT License
parent-module	1.0.1	MIT License
parse-json	5.2.0	MIT License
parse5	5.1.1	MIT License
parse5	6.0.1	MIT License
path-exists	4.0.0	MIT License
path-is-absolute	1.0.1	MIT License
path-key	3.1.1	MIT License
path-parse	1.0.7	MIT License
path-type	4.0.0	MIT License
pcimem	2.0	GPL-2.0-only License
pciutils	3.7.0	GPL-2.0-or-later License
PCRE2 library	10.40	BSD 3-clause "New" or "Revised" License
pcsc-lite	1.9.0	BSD 3-Clause License AND GPL-3.0-or-later License
pend	1.2.0	MIT License
performance-now	2.1.0	MIT License
phenomnomnominal/tsquery	4.1.1	MIT License
php	8.1.16	PHP License v3.0
picocolors	1.0.0	ISC License
picomatch	2.3.1	MIT License
pify	2.3.0	MIT License
pirates	4.0.5	MIT License

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pkg-dir	4.2.0	MIT License
POCO C++ libraries	1.12.4	Boost Software License 1.0
popt	1.18	MIT License
prelude-ls	1.1.2	MIT License
prelude-ls	1.2.1	MIT License
prettier	2.6.0	MIT License
pretty-bytes	5.6.0	MIT License
pretty-format	27.5.1	MIT License
primeicons	4.1.0	MIT License
primeng	11.4.5	MIT License
Prometheus	2.36.2 & 2.41.0	Apache License 2.0
promise-inflight	1.0.1	ISC License
promise-retry	2.0.1	MIT License
protobuf	3.19.6	BSD 3-Clause License
proxy-from-env	1.0.0	MIT License
psl	1.8.0	MIT License
Public Domain JSON Parser for C	unspecific	The Unlicense
pump	3.0.0	MIT License
punycode	2.1.1	MIT License
pure-ftpd	1.0.47	BSD Zero Clause License
qrencode	4.0.2	GNU Lesser General Public License v2.1
qs	6.10.4	BSD 3-clause "New" or "Revised" License
queue-microtask	1.2.3	MIT License
randombytes	2.1.0	MIT License
rapidjson	1.1.0	MIT License
RapidXml XML parser	1.13	Boost Software License 1.0
react-is	17.0.2	MIT License
read-package- json-fast	2.0.3	ISC License

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readdirp	3.6.0	MIT License
readline	8.1.2	GPL-3.0-or-later License
regenerate	1.4.2	MIT License
regenerate-uni-code-properties	10.0.1	MIT License
regenerator-runtime	0.13.9	MIT License
regenerator-transform	0.14.5	MIT License
regexp	3.2.0	MIT License
regexpu-core	5.0.1	MIT License
regjsgen	0.6.0	MIT License
regjsparser	0.8.4	BSD 2-clause "Simplified" License
remez-exchange	1.0	GNU Lesser General Public License v3.0
request-progress	3.0.0	MIT License
require-directory	2.1.1	MIT License
require-from-string	2.0.2	MIT License
require-main-file-name	2.0.0	ISC License
ResizableLib	1.1	Artistic License 1.0
resolve	1.22.0	MIT License
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retry	0.12.0	MIT License
reusify	1.0.4	MIT License
rfdc	1.3.0	MIT License
rgb	1.0.6	MIT License
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Roboto-BoldItalic	2.001150; 2014	Apache License 2.0
Roboto-Italic	2.001101; 2014	Apache License 2.0
Roboto-Medium	2.001152; 2014	Apache License 2.0

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rxjs	6.6.7	Apache License 2.0
rxjs	7.8.0	Apache License 2.0
rxjs-for-await	0.0.2	MIT License
safe-buffer	5.1.2	MIT License
safe-buffer	5.2.1	MIT License
safer-buffer	2.1.2	MIT License
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schema-utils	3.1.1	MIT License
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semver	7.0.0	ISC License
semver	7.3.4	ISC License
semver	7.3.5	ISC License
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sinonjs/fake-timers	8.1.0	BSD 3-clause "New" or "Revised" License
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slice-ansi	4.0.0	MIT License
smart-buffer	4.2.0	MIT License
smartmontools	7.3	GPL-2.0-only License
socks	2.6.2	MIT License

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source-map	0.7.3	BSD 3-clause "New" or "Revised" License
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swc-node/core	1.8.2	MIT License

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swc/core-linux- x64-gnu	1.2.160	Apache-2.0 AND MIT License
swc/core-linux- x64-musl	1.2.160	Apache-2.0 AND MIT License
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tapable	2.2.1	MIT License
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throttleit	1.0.0	MIT License
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tough-cookie	4.0.0	BSD 3-clause "New" or "Revised" License
tr46	2.1.0	MIT License
Tray (cross platform tray icon library)	8dd1358b92562faf7c032cf5362fa97cbc7e13e9	MIT License
ts-loader	9.2.8	MIT License
ts-node	9.1.1	MIT License
tsconfig-paths	3.14.1	MIT License
tsconfig-paths-webpack-plugin	3.5.2	MIT License
tslib	1.14.1	BSD Zero Clause License
tslib	2.3.1	BSD Zero Clause License
tunnel-agent	0.6.0	Apache License 2.0
tweetnacl	0.14.5	The Unlicense
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type-detect	4.0.8	MIT License
type-fest	0.20.2	((MIT OR Creative Commons Zero v1.0 Universal)
type-fest	0.21.3	((MIT OR Creative Commons Zero v1.0 Universal)
typedarray-to-buffer	3.1.5	MIT License
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types/babel__generator	7.6.4	MIT License
types/babel__template	7.4.1	MIT License
types/babel__traverse	7.14.2	MIT License
types/eslint	8.4.1	MIT License
types/eslint-scope	3.7.3	MIT License

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types/yargs	16.0.4	MIT License
types/yargs-parser	21.0.0	MIT License
types/yauzl	2.10.0	MIT License
typescript	4.5.5	Apache License 2.0
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unicode-canonical-property-names-ecmascript	2.0.0	MIT License

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unicode-property-aliases-ecmascript	2.0.0	MIT License
unique-filename	1.1.1	ISC License
unique-slug	2.0.2	ISC License
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universalify	2.0.0	MIT License
untildify	4.0.0	MIT License
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v8-compile-cache	2.3.0	MIT License
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watchpack	2.3.1	MIT License
wcwidth	1.0.1	MIT License
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webassemblyjs/floating-point-hex-parser	1.11.1	MIT License
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webassemblyjs/ wasm-parser	1.11.1	MIT License
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webidl-conver- sions	5.0.0	BSD 2-clause "Simplified" License
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webpack-node- externals	3.0.0	MIT License
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whatwg-encod- ing	1.0.5	MIT License
whatwg-mime- type	2.3.0	MIT License
whatwg-url	8.7.0	MIT License
which	2.0.2	ISC License

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which-module	2.0.0	ISC License
wide-align	1.1.5	ISC License
wildcard	2.0.0	MIT License
Windows Exporter	0.20.0	MIT License
Windows Exporter Dashboard	schema version 26	The Unlicense
Windows Service Wrapper (WinSW)	2.11.0	MIT License
word-wrap	1.2.3	MIT License
wrap-ansi	6.2.0	MIT License
wrap-ansi	7.0.0	MIT License
wrappy	1.0.2	ISC License
write-file-atomic	3.0.3	ISC License
ws	7.5.7	MIT License
x11vnc	0.9.16+git	GPL-2.0-or-later License
xauth	1.1.1	MIT License
xcb-util	0.4.0	MIT License
xcb-util-image	0.4.0	MIT License
xcb-util-keysyms	0.4.0	MIT License
xcb-util-renderutil	0.3.9	MIT License
xcb-util-wm	0.4.1	MIT License
xerces-c	3.2.3	Apache License 2.0
xf86-input-evdev	2.10.6	MIT License
xf86-input-keyboard	1.9.0	MIT License
xf86-input-libinput	1.2.1	MIT License
xf86-input-mouse	1.9.3	MIT License
xf86-input-synaptics	1.9.2	MIT License
xf86-video-ati	19.1.0	MIT License
xf86-video-fbdev	0.5.0	MIT License
xf86-video-vbox	gitAUTOINC+4f3a2bea25	MIT License

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xinit	1.4.1	MIT License
xinput	1.6.3	MIT License
xinput-calibrator	0.7.5+git	MIT License
xkbcomp	1.4.5	MIT License
xkeyboard-config	2.35.1	MIT License AND MIT License AND
xml-name-validator	3.0.0	Apache License 2.0
xmlchars	2.2.0	MIT License
xorg-minimal-fonts	1.0	Public Domain
xrandr	1.5.1	MIT License
xserver-xf86-config	0.1	MIT License
xserver-xorg	21.1.8	MIT License
xset	1.2.4	MIT License
xterm	372	MIT License
xtuc/ieee754	1.2.0	BSD 3-clause "New" or "Revised" License
xtuc/long	4.2.2	Apache License 2.0
xz	5.2.6	GPL-2.0-or-later License AND GNU General Public License v3.0 WITH Autoconf exception 3.0 AND LGPL-2.1-or-later License AND Public Domain
XZIP and XUNZIP	1.3	Info-ZIP License
y18n	4.0.3	ISC License
yallist	4.0.0	ISC License
yaml	1.10.2	ISC License
yargs	15.4.1	MIT License
yargs-parser	18.1.3	ISC License
yargs-parser	20.0.0	ISC License
yarnpkg/lockfile	1.1.0	BSD 2-clause "Simplified" License
yauzl	2.10.0	MIT License
yn	3.1.1	MIT License

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zeromq	Pre 4.3.3 Github commit d76664017c7ccf a8170f50aab9e4 f01d2b0ddfd4	GNU Lesser General Public License v3.0
zeromq	4.3.4	LGPL-3.0-or-later License
zlib	1.2.11	zlib License
zlib	1.2.12	zlib License
zlib	1.2.11	zlib License
Zlib compression library	1.2.12	zlib License
zone.js	0.11.5	MIT License
zstd	1.5.0	GNU General Public License v2.0 AND BSD 3-clause "New" or "Revised" License
zstd	1.5.2	BSD 3-Clause License AND GPL-2.0-only License

LLVM Compiler is developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

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Version 3, 19 November 2007

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Version 3.1, 31 March 2009

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Version 2.1, February 1999

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The code in this library is an extension of Bala Vatti's clipping algorithm:

"A generic solution to polygon clipping"

Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.

<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences

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tao_tuple

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ARCore SDK

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ARCore SDK client library for Chrome

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Blackmagic DeckLink SDK - Mac

Project

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Chromium OS system API

Project Homepage: <http://www.chromium.org/chromium-os>

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CityHash

Project Homepage: <https://github.com/google/cityhash>

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Closure compiler

Project Homepage: <http://github.com/google/closure-compiler>

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Cocoa extension code from Camino
Project Homepage: <http://caminobrowser.org/>

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Compact Encoding Detection
Project Homepage: https://github.com/google/compact_enc_det

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d3

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davld is an AV1 decoder :)

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Dawn

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dynamic annotations

Project Homepage: <http://code.google.com/p/data-race-test/wiki/DynamicAnnotations>

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```

Emoji Segmenter

Project Homepage: <https://github.com/googlei18n/emoji-segmenter>

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Expat XML Parser

Project Homepage: <https://github.com/libexpat/libexpat>

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modifications by Alexander Strange <astrange@ithinksw.com>; Originally from
dct/x86_asm/fdct_sse2_skal.asm in Xvid. Vertical pass is an implementation of the scheme: Loe
Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT Algorithm with Eleven Multiplications,
ICASSP 1989, 988-991. Horizontal pass is a double 4x4 vector/matrix multiplication, (see also
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FlatBuffers

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Google Ink

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google-glog's symbolization library

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google-jstemplate

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Project Homepage: <https://github.com/googlevr/gvr-android-sdk>

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./test/eigen2/eigen2_svd.cpp ./test/eigen2/eigen2_mixingtypes.cpp ./test/eigen2/eigen2_qr.cpp
./test/eigen2/eigen2_cwiseop.cpp ./test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp
./test/eigen2/eigen2_smallvectors.cpp ./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_sparse_solvers.cpp ./test/eigen2/eigen2_hyperplane.cpp
./test/eigen2/eigen2_eigensolver.cpp ./test/eigen2/eigen2_linearstructure.cpp ./test/eigen2/e
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./test/vectorization_logic.cpp ./test/jacobi.cpp ./test/diagonal.cpp ./test/schur_complex.cpp
./test/sizeoverflow.cpp ./bench/BenchTimer.h ./bench/benchFFT.cpp ./bench/eig33.cpp
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./lapack/cholesky.cpp ./lapack/lapack_common.h ./lapack/eigenvalues.cpp ./lapack/single.cpp
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./unsupported/Eigen/src/NonLinearOptimization/LevenbergMarquardt.h

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./unsupported/Eigen/src/AutoDiff/AutoDiffVector.h ./unsupported/Eigen/src/Splines/Spline.h
./unsupported/Eigen/src/Splines/SplineFitting.h ./unsupported/Eigen/src/Splines/SplineFwd.h
./unsupported/Eigen/src/SVD/JacobiSVD.h ./unsupported/Eigen/src/SVD/BDCSVD.h
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./unsupported/Eigen/src/Skyline/SkylineMatrix.h ./unsupported/Eigen/SparseExtra
./unsupported/Eigen/AdolcForward ./unsupported/Eigen/KroneckerProduct
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./unsupported/Eigen/NumericalDiff ./unsupported/Eigen/Skyline ./COPYING.README ./COPYING.README
./LICENSE ./LICENSE ./LICENSE ./Eigen/Eigen2Support ./Eigen/src/Eigen2Support/VectorBlock.h
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./Eigen/src/Eigen2Support/Lazy.h ./Eigen/src/Eigen2Support/Memory.h
./Eigen/src/Eigen2Support/MathFunctions.h ./Eigen/src/Eigen2Support/Geometry/AlignedBox.h
./Eigen/src/Eigen2Support/Geometry/Hyperplane.h ./Eigen/src/Eigen2Support/Geometry/Quaternion.h
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./Eigen/src/SparseCore/CompressedStorage.h ./Eigen/src/SparseCore/SparseMatrixBase.h
./Eigen/src/SparseCore/MappedSparseMatrix.h ./Eigen/src/SparseCore/SparseTriangularView.h

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./Eigen/src/SparseCore/TriangularSolver.h ./Eigen/src/SparseCore/SparseSelfAdjointView.h
./Eigen/src/SparseCore/SparseMatrix.h ./Eigen/src/SparseCore/SparseVector.h
./Eigen/src/SparseCore/AmbiVector.h ./Eigen/src/SparseCore/ConservativeSparseProduct.h
./Eigen/src/SparseCore/SparseRedux.h ./Eigen/src/SparseCore/SparsePermutation.h
./Eigen/src/Eigenvalues/RealSchur.h ./Eigen/src/Eigenvalues/ComplexEigenSolver.h
./Eigen/src/Eigenvalues/GeneralizedEigenSolver.h
./Eigen/src/Eigenvalues/ComplexSchur.h ./Eigen/src/Eigenvalues/RealQZ.h
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./Eigen/src/StlSupport/StdVector.h ./Eigen/src/StlSupport/StdList.h ./Eigen/src/StlSupport/StdDeque.h
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./Eigen/src/Core/Flagged.h ./Eigen/src/Core/CwiseBinaryOp.h ./Eigen/src/Core/ProductBase.h
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./Eigen/src/Cholesky/LLT.h ./Eigen/src/CholmodSupport/CholmodSupport.h
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./Eigen/Core ./Eigen/SparseLU ./Eigen/StdList ./Eigen/StdDeque ./Eigen/SparseCholesky
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./unsupported/Eigen/src/LevenbergMarquardt/LMqrsolv.h
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Headers for the Windows 10 WebAuthn API (webauthn.dll)

Project Homepage: <https://github.com/Microsoft/webauthn/>

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jsoncpp

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libudev

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libxslt

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libyuv

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linux-syscall-support

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OpenVR SDK

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opus

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OTS (OpenType Sanitizer)

Project Homepage: <https://github.com/khaledhosny/ots.git>

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Paul Hsieh's SuperFastHash

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Protocol Buffers

Project Homepage: <https://github.com/google/protobuf>

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pyjson5

Project Homepage: <https://github.com/dpranke/pyjson5>

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pywebsocket3

Project Homepage: <https://github.com/GoogleChromeLabs/pywebsocket3/>

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Quick Color Management System

Project Homepage: <https://github.com/jrmuizel/qcms/tree/v4>

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re2 - an efficient, principled regular expression library

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Shaderc

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simplejson

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six

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Snappy: A fast compressor/decompressor

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UnRAR source for decompressing .RAR and other files.

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url_parse

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usrstcp

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v4l-utils

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V8 JavaScript Engine

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valgrind

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WebM container parser and writer.

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Weston - reference Wayland compositor

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woff2

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xdg-utils

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That's all there is to it!

```
=====
avahi-0.8: avahi-common/address.h, 1-25
=====
```

```
#ifndef foaddressshfoo
#define foaddressshfoo
```

```
/**
```

```
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```

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```

```
*/
```

```
/** \file address.h Definitions and functions to manipulate IP addresses. */
```

```
#include <inttypes.h>
```

```
=====
avahi-0.8: avahi-core/dns.h, 1-23
=====
```

```
#ifndef foodnshfoo
#define foodnshfoo
```

```
/**
```

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***/

#include "rr.h"

=====

avahi-0.8: avahi-daemon/main.c, 1-21

=====

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***/

#ifdef HAVE_CONFIG_H

#include <config.h>

=====

avahi-0.8: avahi-client/client.h, 1-23

=====

#ifndef fooclienthfoo

#define fooclienthfoo

```

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****/

```

```
#include <inttypes.h>
```

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```

```

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```

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary

one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

```
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modify it under the terms of the GNU Library General Public  
License as published by the Free Software Foundation; either
```

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
cifs-utils-6.14: COPYING
dosfstools-4.2: COPYING
elfutils-0.186: COPYING
gcc-runtime-11.3.0: COPYING3
gdb-11.2: COPYING3
gmp-6.2.1: COPYING
grub-2.06: COPYING
grub-2.04+2.06~rc1: COPYING
haveged-1.9.18: COPYING
libgcc-11.3.0: COPYING3
mhdfs-0.1.39+git: LICENSE
readline-8.1.2: COPYING
samba-4.14.14: COPYING
xz-5.2.6: COPYING.GPLv3
=====

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Version 3, 29 June 2007

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For the developers' and authors' protection, the GPL clearly explains
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authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic

pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

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

An interactive user interface displays "Appropriate Legal Notices"

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

1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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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:

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- 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.

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

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the

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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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```
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boost-1.78.0: LICENSE_1_0.txt
=====
```

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2-1.0.8: LICENSE, 4-40
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Julian Seward, jseward@acm.org
 bzip2/libbzip2 version 1.0.8 of 13 July 2019

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cpprest-2.10.18: license.txt
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curl-7.82.0: COPYING
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dbus-1.14.6: dbus/dbus.h, 6-20
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=====

loginrec.c
loginrec.h
atomicio.h
atomicio.c
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Theodore Ts'o
23-June-2007

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That's all there is to it!

```
=====
e2fsprogs-1.46.5: lib/ext2fs/ext2fs.h, 1-9
e2fsprogs-1.46.1: lib/ext2fs/ext2fs.h, 1-9
=====
```

```
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 * ext2fs.h --- ext2fs
 *
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 *
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 * %End-Header%
```

```
=====
e2fsprogs-1.46.5: lib/e2p/e2p.h, 1-7
e2fsprogs-1.46.1: lib/e2p/e2p.h, 1-7
=====
```

```
/*
 * e2p.h --- header file for the e2p library
 *
 * %Begin-Header%
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```

```

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=====
e2fsprogs-1.46.5: lib/uuid/uuid.h.in, 1-32
e2fsprogs-1.46.1: lib/uuid/uuid.h.in, 1-32
=====

/*
* Public include file for the UUID library
*
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e2fsprogs-1.46.5: lib/uuid/COPYING
e2fsprogs-1.46.1: lib/uuid/COPYING
util-linux-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
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```
=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
e2fsprogs-1.46.1: lib/et/et_name.c, 1-11
=====
```

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```
=====
e2fsprogs-1.46.5: lib/ss/ss.h, 1-20
e2fsprogs-1.46.1: lib/ss/ss.h, 1-20
=====
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*
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*
* "BTW, I would have rejected the name Story Server because its
* initials are SS, the name of the secret police in Nazi
* Germany, probably the most despised pair of letters in western
* culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
*
* Let no one say political correctness isn't dead....

```

```

=====
elfutils-0.186: debuginfod/debuginfod-client.c, 1-27
=====

```

```

/* Retrieve ELF / DWARF / source files from the debuginfod.
   Copyright (C) 2019-2021 Red Hat, Inc.
   This file is part of elfutils.

```

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```

```

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```

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=====

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```
=====
extrace-0.9: LICENSE
=====
```

```
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 * extrace - trace exec() calls system-wide
 *
 * Copyright (C) 2014-2019 Leah Neukirchen <leah@vuxu.org>
 *
 * hacked from sources of:
 */
/* FreeBSD: head/bin/pwait/pwait.c 245506 2013-01-16 18:15:25Z delphij */
/*-
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* OF SUCH DAMAGE.
*/
/* exec-notify, so you can watch your acrobat reader or vim executing "bash -c"
* commands ;-)
* Requires some 2.6.x Linux kernel with proc connector enabled.
*
* $ cc -Wall -ansi -pedantic -std=c99 exec-notify.c
*
* (C) 2007-2010 Sebastian Kraemer <kraemer@suse.de> original netlink handling
* stolen from an proc-connector example, copyright follows:
*/
/* Copyright (C) Matt Helsley, IBM Corp. 2005
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*/

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kmod-29: tools/COPYING
libftdi-1.4: COPYING.GPL
pciutils-3.7.0: COPYING
systemd-250.5: LICENSE.GPL2
=====

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```

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```
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under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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```
=====
font-alias-1.0.4: cyrillic/fonts.alias
=====
```

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!
fixed -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
variable *-helvetica-bold-r-normal*-*-120-*-*-*-*koi8-r
5x8 -misc-fixed-medium-r-normal--8-80-75-75-c-50-koi8-r
6x9 -misc-fixed-medium-r-normal--9-90-75-75-c-60-koi8-r
6x10 -cronyx-fixed-medium-r-normal--10-100-75-75-c-60-koi8-r
6x13 -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
6x13bold -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-koi8-r
7x14 -misc-fixed-medium-r-normal--14-130-75-75-c-70-koi8-r
7x14b -misc-fixed-bold-r-normal--14-130-75-75-c-70-koi8-r
8x13 -misc-fixed-medium-r-normal--13-120-75-75-c-80-koi8-r
8x16 -misc-fixed-medium-r-normal--16-160-75-75-c-80-koi8-r
8x16bold -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
9x15 -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
9x15bold -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
9x18 -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
9x18bold -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
10x16bold -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
10x20 -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
12x24 -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r
12x24bold -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
nil2 -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
koi-fixed -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
koi-variable *-helvetica-bold-r-normal*-*-120-*-*-*-*koi8-r
koi5x8 -misc-fixed-medium-r-normal--8-80-75-75-c-50-koi8-r
koi6x9 -misc-fixed-medium-r-normal--9-90-75-75-c-60-koi8-r
koi6x10 -cronyx-fixed-medium-r-normal--10-100-75-75-c-60-koi8-r
koi6x13 -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
koi6x13bold -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-koi8-r
koi7x14 -misc-fixed-medium-r-normal--14-130-75-75-c-70-koi8-r
koi7x14b -misc-fixed-bold-r-normal--14-130-75-75-c-70-koi8-r
koi8x13 -misc-fixed-medium-r-normal--13-120-75-75-c-80-koi8-r
koi8x16 -misc-fixed-medium-r-normal--16-160-75-75-c-80-koi8-r
koi8x16bold -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
```



```

koi9x15 -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
koi9x15bold -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
koi9x18 -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
koi9x18bold -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
koi10x16bold -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
koi10x20 -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
koi12x24 -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r
koi12x24bold -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
koinil2 -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
screen8x16 -screen-fixed-medium-r-normal--16-120-100-100-c-80-koi8-r
screen8x16b -screen-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r

```

```

=====
font-alias-1.0.4: 75dpi/fonts.alias
=====

```

```

lucidasans-bolditalic-8 -b&h-lucida-bold-i-normal-sans-8-80-75-75-p-49-iso8859-1
lucidasans-bolditalic-10 -b&h-lucida-bold-i-normal-sans-10-100-75-75-p-67-iso8859-1
lucidasans-bolditalic-12 -b&h-lucida-bold-i-normal-sans-12-120-75-75-p-79-iso8859-1
lucidasans-bolditalic-14 -b&h-lucida-bold-i-normal-sans-14-140-75-75-p-92-iso8859-1
lucidasans-bolditalic-18 -b&h-lucida-bold-i-normal-sans-18-180-75-75-p-119-iso8859-1
lucidasans-bolditalic-24 -b&h-lucida-bold-i-normal-sans-24-240-75-75-p-151-iso8859-1
lucidasans-bold-8 -b&h-lucida-bold-r-normal-sans-8-80-75-75-p-50-iso8859-1
lucidasans-bold-10 -b&h-lucida-bold-r-normal-sans-10-100-75-75-p-66-iso8859-1
lucidasans-bold-12 -b&h-lucida-bold-r-normal-sans-12-120-75-75-p-79-iso8859-1
lucidasans-bold-14 -b&h-lucida-bold-r-normal-sans-14-140-75-75-p-92-iso8859-1
lucidasans-bold-18 -b&h-lucida-bold-r-normal-sans-18-180-75-75-p-120-iso8859-1
lucidasans-bold-24 -b&h-lucida-bold-r-normal-sans-24-240-75-75-p-152-iso8859-1
lucidasans-italic-8 -b&h-lucida-medium-i-normal-sans-8-80-75-75-p-45-iso8859-1
lucidasans-italic-10 -b&h-lucida-medium-i-normal-sans-10-100-75-75-p-59-iso8859-1
lucidasans-italic-12 -b&h-lucida-medium-i-normal-sans-12-120-75-75-p-71-iso8859-1
lucidasans-italic-14 -b&h-lucida-medium-i-normal-sans-14-140-75-75-p-82-iso8859-1
lucidasans-italic-18 -b&h-lucida-medium-i-normal-sans-18-180-75-75-p-105-iso8859-1
lucidasans-italic-24 -b&h-lucida-medium-i-normal-sans-24-240-75-75-p-136-iso8859-1
lucidasans-8 -b&h-lucida-medium-r-normal-sans-8-80-75-75-p-45-iso8859-1
lucidasans-10 -b&h-lucida-medium-r-normal-sans-10-100-75-75-p-58-iso8859-1
lucidasans-12 -b&h-lucida-medium-r-normal-sans-12-120-75-75-p-71-iso8859-1
lucidasans-14 -b&h-lucida-medium-r-normal-sans-14-140-75-75-p-81-iso8859-1
lucidasans-18 -b&h-lucida-medium-r-normal-sans-18-180-75-75-p-106-iso8859-1
lucidasans-24 -b&h-lucida-medium-r-normal-sans-24-240-75-75-p-136-iso8859-1
lucidasanstypewriter-bold-8
-b&h-lucidatypewriter-bold-r-normal-sans-8-80-75-75-m-50-iso8859-1
lucidasanstypewriter-bold-10
-b&h-lucidatypewriter-bold-r-normal-sans-10-100-75-75-m-60-iso8859-1
lucidasanstypewriter-bold-12
-b&h-lucidatypewriter-bold-r-normal-sans-12-120-75-75-m-70-iso8859-1
lucidasanstypewriter-bold-14
-b&h-lucidatypewriter-bold-r-normal-sans-14-140-75-75-m-90-iso8859-1
lucidasanstypewriter-bold-18
-b&h-lucidatypewriter-bold-r-normal-sans-18-180-75-75-m-110-iso8859-1

```

```

lucidasanstypewriter-bold-24
-b&h-lucidatypewriter-bold-r-normal-sans-24-240-75-75-m-140-iso8859-1
lucidasanstypewriter-8
-b&h-lucidatypewriter-medium-r-normal-sans-8-80-75-75-m-50-iso8859-1
lucidasanstypewriter-10
-b&h-lucidatypewriter-medium-r-normal-sans-10-100-75-75-m-60-iso8859-1
lucidasanstypewriter-12
-b&h-lucidatypewriter-medium-r-normal-sans-12-120-75-75-m-70-iso8859-1
lucidasanstypewriter-14
-b&h-lucidatypewriter-medium-r-normal-sans-14-140-75-75-m-90-iso8859-1
lucidasanstypewriter-18
-b&h-lucidatypewriter-medium-r-normal-sans-18-180-75-75-m-110-iso8859-1
lucidasanstypewriter-24
-b&h-lucidatypewriter-medium-r-normal-sans-24-240-75-75-m-140-iso8859-1

=====
font-alias-1.0.4: misc/fonts.alias
=====

fixed      -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1
variable  -*helvetica-bold-r-normal-*-*120-*-*-*-*iso8859-1
5x7       -misc-fixed-medium-r-normal--7-70-75-75-c-50-iso8859-1
5x8       -misc-fixed-medium-r-normal--8-80-75-75-c-50-iso8859-1
6x9       -misc-fixed-medium-r-normal--9-90-75-75-c-60-iso8859-1
6x10      -misc-fixed-medium-r-normal--10-100-75-75-c-60-iso8859-1
6x12      -misc-fixed-medium-r-semicondensed--12-110-75-75-c-60-iso8859-1
6x13      -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1
6x13bold  -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-iso8859-1
7x13      -misc-fixed-medium-r-normal--13-120-75-75-c-70-iso8859-1
7x13bold  -misc-fixed-bold-r-normal--13-120-75-75-c-70-iso8859-1
7x13euro  -misc-fixed-medium-r-normal--13-120-75-75-c-70-iso8859-15
7x13eurobold -misc-fixed-bold-r-normal--13-120-75-75-c-70-iso8859-15
7x14      -misc-fixed-medium-r-normal--14-130-75-75-c-70-iso8859-1
7x14bold  -misc-fixed-bold-r-normal--14-130-75-75-c-70-iso8859-1
8x13      -misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-1
8x13bold  -misc-fixed-bold-r-normal--13-120-75-75-c-80-iso8859-1
8x16      -sony-fixed-medium-r-normal--16-120-100-100-c-80-iso8859-1
9x15      -misc-fixed-medium-r-normal--15-140-75-75-c-90-iso8859-1
9x15bold  -misc-fixed-bold-r-normal--15-140-75-75-c-90-iso8859-1
10x20     -misc-fixed-medium-r-normal--20-200-75-75-c-100-iso8859-1
12x24     -sony-fixed-medium-r-normal--24-170-100-100-c-120-iso8859-1
nil2      -misc-nil-medium-r-normal--2-20-75-75-c-10-misc-fontspecific

heb6x13   -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-8
heb8x13   -misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-8

k14       -misc-fixed-medium-r-normal--14-*-*-*-*-*jisx0208.1983-0
a14       -misc-fixed-medium-r-normal--14-*-*-*-*-*iso8859-1
r14       -misc-fixed-medium-r-normal--14-*-*-*-*-*jisx0201.1976-0
rk14      -misc-fixed-medium-r-normal--14-*-*-*-*-*jisx0201.1976-0

```

```

r16          -sony-fixed-medium-r-normal--16-**-***--jisx0201.1976-0
rk16        -sony-fixed-medium-r-normal--16-**-***--jisx0201.1976-0
r24         -sony-fixed-medium-r-normal--24-**-***--jisx0201.1976-0
rk24        -sony-fixed-medium-r-normal--24-**-***--jisx0201.1976-0
kana14      -misc-fixed-medium-r-normal--14-**-***--jisx0201.1976-0
8x16kana    -sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
8x16romkana -sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
12x24kana   -sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
12x24romkana -sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
kanji16     -jis-fixed-medium-r-normal--16-**-***--jisx0208.1983-0
kanji24     -jis-fixed-medium-r-normal--24-**-***--jisx0208.1983-0

hanzigb16st "-isas-song ti-medium-r-normal--16-160-72-72-c-160-gb2312.1980-0"
hanzigb24st "-isas-song ti-medium-r-normal--24-240-72-72-c-240-gb2312.1980-0"
hanzigb16fs "-isas-fangsong ti-medium-r-normal--16-160-72-72-c-160-gb2312.1980-0"

olcursor   "-sun-open look cursor-----12-120-75-75-p-160-sunolcursor-1"
olglyph-10 "-sun-open look glyph-----10-100-75-75-p-101-sunolglyph-1"
olglyph-12 "-sun-open look glyph-----12-120-75-75-p-113-sunolglyph-1"
olglyph-14 "-sun-open look glyph-----14-140-75-75-p-128-sunolglyph-1"
olglyph-19 "-sun-open look glyph-----19-190-75-75-p-154-sunolglyph-1"

-misc-fixed-medium-r-normal--7-50-100-100-c-50-iso8859-1
-misc-fixed-medium-r-normal--7-70-75-75-c-50-iso8859-1
-misc-fixed-medium-r-normal--8-60-100-100-c-50-iso8859-1
-misc-fixed-medium-r-normal--8-80-75-75-c-50-iso8859-1
-misc-fixed-medium-r-normal--9-80-100-100-c-60-iso8859-1
-misc-fixed-medium-r-normal--9-90-75-75-c-60-iso8859-1
-misc-fixed-medium-r-normal--10-70-100-100-c-60-iso8859-1
-misc-fixed-medium-r-normal--10-100-75-75-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--12-90-100-100-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--12-110-75-75-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--13-100-100-100-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1
-misc-fixed-bold-r-semicondensed--13-100-100-100-c-60-iso8859-1
-misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-iso8859-1
-misc-fixed-medium-r-normal--13-100-100-100-c-70-iso8859-1
-misc-fixed-medium-r-normal--13-120-75-75-c-70-iso8859-1
-misc-fixed-bold-r-normal--13-100-100-100-c-70-iso8859-1
-misc-fixed-bold-r-normal--13-120-75-75-c-70-iso8859-1
-misc-fixed-medium-r-normal--13-100-100-100-c-80-iso8859-1
-misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-1
-misc-fixed-bold-r-normal--13-100-100-100-c-80-iso8859-1
-misc-fixed-bold-r-normal--13-120-75-75-c-80-iso8859-1
-misc-fixed-medium-r-normal--14-110-100-100-c-70-iso8859-1
-misc-fixed-medium-r-normal--14-130-75-75-c-70-iso8859-1
-misc-fixed-medium-r-normal--15-120-100-100-c-90-iso8859-1
-misc-fixed-medium-r-normal--15-140-75-75-c-90-iso8859-1
-misc-fixed-bold-r-normal--15-120-100-100-c-90-iso8859-1
-misc-fixed-bold-r-normal--15-140-75-75-c-90-iso8859-1

```

```

-misc-fixed-medium-r-normal--20-140-100-100-c-100-iso8859-1
-misc-fixed-medium-r-normal--20-200-75-75-c-100-iso8859-1
-misc-fixed-medium-r-semicondensed--13-100-100-100-c-60-iso8859-8
-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-8
-misc-fixed-medium-r-normal--13-100-100-100-c-80-iso8859-8
-misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-8
-sony-fixed-medium-r-normal--16-150-75-75-c-80-iso8859-1
-sony-fixed-medium-r-normal--16-120-100-100-c-80-iso8859-1
-sony-fixed-medium-r-normal--16-150-75-75-c-80-jisx0201.1976-0
-sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
-sony-fixed-medium-r-normal--24-230-75-75-c-120-iso8859-1
-sony-fixed-medium-r-normal--24-170-100-100-c-120-iso8859-1
-sony-fixed-medium-r-normal--24-230-75-75-c-120-jisx0201.1976-0
-sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
-jis-fixed-medium-r-normal--16-110-100-100-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--16-150-75-75-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-170-100-100-c-240-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-230-75-75-c-240-jisx0208.1983-0

```

```

=====
font-alias-1.0.4: 100dpi/fonts.alias
=====

```

```

lucidasans-bolditalic-8 -b&h-lucida-bold-i-normal-sans-11-80-100-100-p-69-iso8859-1
lucidasans-bolditalic-10
-b&h-lucida-bold-i-normal-sans-14-100-100-100-p-90-iso8859-1
lucidasans-bolditalic-12
-b&h-lucida-bold-i-normal-sans-17-120-100-100-p-108-iso8859-1
lucidasans-bolditalic-14
-b&h-lucida-bold-i-normal-sans-20-140-100-100-p-127-iso8859-1
lucidasans-bolditalic-18
-b&h-lucida-bold-i-normal-sans-25-180-100-100-p-159-iso8859-1
lucidasans-bolditalic-24
-b&h-lucida-bold-i-normal-sans-34-240-100-100-p-215-iso8859-1
lucidasans-bold-8 -b&h-lucida-bold-r-normal-sans-11-80-100-100-p-70-iso8859-1
lucidasans-bold-10 -b&h-lucida-bold-r-normal-sans-14-100-100-100-p-89-iso8859-1
lucidasans-bold-12 -b&h-lucida-bold-r-normal-sans-17-120-100-100-p-108-iso8859-1
lucidasans-bold-14 -b&h-lucida-bold-r-normal-sans-20-140-100-100-p-127-iso8859-1
lucidasans-bold-18 -b&h-lucida-bold-r-normal-sans-25-180-100-100-p-158-iso8859-1
lucidasans-bold-24 -b&h-lucida-bold-r-normal-sans-34-240-100-100-p-216-iso8859-1
lucidasans-italic-8 -b&h-lucida-medium-i-normal-sans-11-80-100-100-p-62-iso8859-1
lucidasans-italic-10 -b&h-lucida-medium-i-normal-sans-14-100-100-100-p-80-iso8859-1
lucidasans-italic-12 -b&h-lucida-medium-i-normal-sans-17-120-100-100-p-97-iso8859-1
lucidasans-italic-14 -b&h-lucida-medium-i-normal-sans-20-140-100-100-p-114-iso8859-1
lucidasans-italic-18 -b&h-lucida-medium-i-normal-sans-25-180-100-100-p-141-iso8859-1
lucidasans-italic-24 -b&h-lucida-medium-i-normal-sans-34-240-100-100-p-192-iso8859-1
lucidasans-8 -b&h-lucida-medium-r-normal-sans-11-80-100-100-p-63-iso8859-1
lucidasans-10 -b&h-lucida-medium-r-normal-sans-14-100-100-100-p-80-iso8859-1
lucidasans-12 -b&h-lucida-medium-r-normal-sans-17-120-100-100-p-96-iso8859-1
lucidasans-14 -b&h-lucida-medium-r-normal-sans-20-140-100-100-p-114-iso8859-1

```

```

lucidasans-18 -b&h-lucida-medium-r-normal-sans-25-180-100-100-p-142-iso8859-1
lucidasans-24 -b&h-lucida-medium-r-normal-sans-34-240-100-100-p-191-iso8859-1
lucidasanstypewriter-bold-8
-b&h-lucidatypewriter-bold-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-bold-10
-b&h-lucidatypewriter-bold-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-bold-12
-b&h-lucidatypewriter-bold-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-bold-14
-b&h-lucidatypewriter-bold-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-bold-18
-b&h-lucidatypewriter-bold-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-bold-24
-b&h-lucidatypewriter-bold-r-normal-sans-34-240-100-100-m-200-iso8859-1
lucidasanstypewriter-8
-b&h-lucidatypewriter-medium-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-10
-b&h-lucidatypewriter-medium-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-12
-b&h-lucidatypewriter-medium-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-14
-b&h-lucidatypewriter-medium-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-18
-b&h-lucidatypewriter-medium-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-24
-b&h-lucidatypewriter-medium-r-normal-sans-34-240-100-100-m-200-iso8859-1

```

```

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fontconfig-2.13.1: COPYING
=====

```

```
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```
=====  
fontconfig-2.13.1: src/fcfttype.c, 1-45  
=====
```

```
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 * fontconfig/src/fcfttype.c  
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 */
```

```
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*/

```
=====
fontconfig-2.13.1: src/fccache.c, 1671-1686
=====
```

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*

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*

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

*/

```
=====
font-util-1.3.3: COPYING
=====
```

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```
=====
font-util-1.3.3: ucs2any.c, 1-28
=====
```

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 */
```

```
=====
font-util-1.3.3: bdftruncate.c, 1-26
=====
```

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```

```

=====
font-util-1.3.3: map-ISO8859-1, 9-23
=====

```

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```

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Ty Coon, President of Vice
```

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```
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=====
```

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Version 3.1, 31 March 2009

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=====
glib-2.0-2.72.3: glib/glib.h, 4-17
glib-2.0-2.72.3: gmodule/gmodule.h, 4-17
=====
```

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glib-2.0-2.72.3: docs/reference/COPYING
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```
=====
gnutls-3.7.4: LICENSE
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```

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Version 3, 29 June 2007

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=====
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```
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=====
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=====
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icu-70.1: LICENSE  
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iptables-1.8.7: iptables/iptables.c, 13-25
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c

```

lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
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lib/gssapi/mechglue/g_rel_buffer.c
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lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_seal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

```

and the initial implementation of incremental propagation, including the following new or changed files:

```

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

```

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For files:

- cipher/sha256-avx-amd64.S
- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S
- cipher/sha512-ssse3-i386.c

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- random/jitterentropy.h
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=====
libglu-9.0.2: include/GL/glu.h, 1-29
libglu-9.0.2: src/libtess/tess.c, 1-29
=====
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=====
libidn2-2.3.2: src/idn2.c, 1-16
=====
```

```
/* idn2.c - command line interface to libidn2
   Copyright (C) 2011-2021 Simon Josefsson, Tim Ruehsen
```

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```
*/

=====
libidn2-2.3.2: lib/idn2.h.in, 1-27
=====

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```
=====
libjpeg-turbo-2.1.5.1: cdjpeg.h, 1-13
=====
```

```
/*
 * cdjpeg.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2019 by Guido Vollbeding.
 * libjpeg-turbo Modifications:
 * Copyright (C) 2017, 2019, 2021, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README.ijg
 * file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
```

```
=====
libjpeg-turbo-2.1.5.1: jpeglib.h, 1-16
=====
```

```
/*
 * jpeglib.h
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```

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* file.
*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

```

```

=====
libjpeg-turbo-2.1.5.1: djpeg.c, 1-11
=====

```

```

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* djpeg.c
*
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```

```

=====
libldb-2.3.4: pyldb.h, 1-24
=====

```

```

/*
  Unix SMB/CIFS implementation.

  Python interface to ldb.

  Copyright (C) 2007-2008 Jelmer Vernooij <jelmer@samba.org>

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*/

=====
libldb-2.3.4: man/ldb.3.xml, 261-262
=====

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=====
libldb-2.3.4: tools/ldbdump.c, 1-19
=====

/*
 Unix SMB/CIFS implementation.
 simple ldb tdb dump util
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=====
 libpcre-8.45: LICENCE
 =====

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

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 */
```

```
=====
libtalloc-2.3.3: talloc.h, 3-27
=====
```

```

/*
  Unix SMB/CIFS implementation.
  Samba temporary memory allocation functions

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*/

=====
libtalloc-2.3.3: pytalloc.h, 1-18
=====

/*
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  Samba utility functions
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=====

```



```
libtdb-1.4.3: tools/tdbdump.c, 1-18
```

```
=====
```

```
/*
   Unix SMB/CIFS implementation.
   simple tdb dump util
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*/
```

```
=====
```

```
libtdb-1.4.3: include/tdb.h, 1-27
```

```
=====
```

```
#ifndef __TDB_H__
#define __TDB_H__
```

```
/*
   Unix SMB/CIFS implementation.

   trivial database library

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```

```

=====
libtevent-0.10.2: tevent.h, 1-26
=====

```

```

/*

```

```

    Unix SMB/CIFS implementation.

```

```

    generalised event loop handling

```

```

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```

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```

```
*/
```

```
=====
libtirpc-1.3.2: src/netname.c, 1-27
```

```
rpcbind-1.2.6: src/rpcinfo.c, 1-27
=====
```

```
/*
```

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*
```

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```
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```

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```

```
*/
```

```
=====
libunistring-1.0: README, 45-65
=====
```

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```
=====
libunistring-1.0: doc/libunistring.texi
=====
```

```
\input texinfo          @c -*-texinfo-*-
@comment %**start of header
@setfilename libunistring.info
@documentencoding UTF-8
@settitle GNU libunistring
@finalout
@c Indices:
@c  am = autoconf macro   @amindex
@c  cp = concept          @cindex
@c  fn = function         @findex
@c  tp = type             @tindex
@c Unused predefined indices:
@c  ky = keystroke       @kindex
@c  pg = program         @pindex
@c  vr = variable        @vindex
@defcodeindex am
@syncodeindex am cp
@syncodeindex fn cp
@syncodeindex tp cp
@ifclear texi2html
@firstparagraphindent insert
@end ifclear
@c texi2html-1.76 does not support @arrow{}.
@ifset texi2html
```

```

@macro arrow{}
→
@end macro
@end ifset
@comment %**end of header

@include version.texi

@c Location of the POSIX specification on the web.
@set POSIXURL http://pubs.opengroup.org/onlinepubs/9699919799

@c Macro for referencing a POSIX header.
@ifinfo
@macro posixheader{header}
@code{<\header>}
@end macro
@end ifinfo
@ifnotinfo
@macro posixheader{header}
@uref{@value{POSIXURL}/basedefs/\header\.html,,@code{<\header>}}
@end macro
@end ifnotinfo

@c Macro for referencing a POSIX function.
@c We don't write it as func(), see section "GNU Manuals" of the
@c GNU coding standards.
@ifinfo
@macro posixfunc{func}
@code{\func\}
@end macro
@end ifinfo
@ifnotinfo
@macro posixfunc{func}
@uref{@value{POSIXURL}/functions/\func\.html,,@code{\func\}}
@end macro
@end ifnotinfo

@c Macro for referencing a normal function.
@c We don't write it as func(), see section "GNU Manuals" of the
@c GNU coding standards.
@macro func{func}
@code{\func\}
@end macro

@c Macro for an advisory ragged line break in TeX mode.
@c Needed because there are long unbreakable pieces of text (such as URLs or
@c formulas), TeX is too shy to move them to a new line. TeX considers only
@c two choices: a line break in aligned mode (which it rejects due to aesthetic
@c reasons) and writing into the margin. What we want in many cases is a line
@c break without filling the first line. Like what @* delivers. But we want it

```

```
@c only when needed, so that it disappears when unrelated changes in the same
@c paragraph cause a line break in a nearby position. And we need it only in
@c TeX mode. info and HTML modes are fine.
@c This trick is from Karl Berry.
@iftex
@macro texnl
@hfil@penalty9000@hfilneg
@end macro
@end iftex
@ifnottex
@macro texnl
@end macro
@end ifnottex

@ifinfo
@dircategory Software development
@direntry
* GNU libunistring: (libunistring).      Unicode string library.
@end direntry
@end ifinfo

@ifinfo
This manual is for GNU libunistring.

@ignore
@c This was: @copying but it triggers a makeinfo 4.13 bug
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modify it under the terms of the GNU General Public License (GPL), either
version 3 of the License, or (at your option) any later version published
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A copy of the license is included in @ref{GNU GPL}.
@end ignore
@end ifinfo

@titlepage
@title GNU libunistring, version @value{VERSION}
```

```
@subtitle updated @value{UPDATED}
@author Bruno Haible
```

```
@ifnohtml
@page
@vskip Opt plus 1filll
@c @insertcopying
Copyright (C) 2001-2022 Free Software Foundation, Inc.
```

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```
@end ifnohtml
@end titlepage
```

```
@c Table of Contents
@contents
```

```
@ifnottex
@node Top
@top GNU libunistring
@end ifnottex
```

```
@menu
* Introduction::          Who may need Unicode strings?
* Conventions::          Conventions used in this manual
* untypes.h::            Elementary types
* unistr.h::             Elementary Unicode string functions
* uniconv.h::            Conversions between Unicode and encodings
* unistdio.h::           Output with Unicode strings
* uniname.h::            Names of Unicode characters
* unictype.h::           Unicode character classification and properties
* uniwidth.h::           Display width
* unigrk.h::             Grapheme cluster breaking
* unibrk.h::             Word breaks in strings
* unilbrk.h::           Line breaking
```

```

* uninorm.h::                Normalization forms
* unicast.h::                Case mappings
* uniregex.h::              Regular expressions
* Using the library::        How to link with the library and use it?
* More functionality::       More advanced functionality
* The wchar_t mess::         Why @code{wchar_t *} strings are useless
* The char32_t problem::     Why @code{char32_t *} strings are problematic
* Licenses::                 Licenses

* Index::                    General Index

```

@detailmenu

--- The Detailed Node Listing ---

Introduction

```

* Unicode::                  What is Unicode?
* Unicode and i18n::         Unicode and internationalization
* Locale encodings::        What is a locale encoding?
* In-memory representation:: How to represent strings in memory?
* char * strings::          What to keep in mind with @code{char *} strings
* Unicode strings::         How are Unicode strings represented?

```

unistr.h

```

* Elementary string checks::
* Elementary string conversions::
* Elementary string functions::
* Elementary string functions with memory allocation::
* Elementary string functions on NUL terminated strings::

```

Elementary string functions

```

* Iterating::
* Creating Unicode strings::
* Copying Unicode strings::
* Comparing Unicode strings::
* Searching for a character::
* Counting characters::

```

Elementary string functions on NUL terminated strings

```

* Iterating over a NUL terminated Unicode string::
* Length::
* Copying a NUL terminated Unicode string::
* Comparing NUL terminated Unicode strings::
* Duplicating a NUL terminated Unicode string::
* Searching for a character in a NUL terminated Unicode string::
* Searching for a substring::
* Tokenizing::

```


unictype.h

- * General category::
- * Canonical combining class::
- * Bidi class::
- * Decimal digit value::
- * Digit value::
- * Numeric value::
- * Mirrored character::
- * Arabic shaping::
- * Properties::
- * Scripts::
- * Blocks::
- * ISO C and Java syntax::
- * Classifications like in ISO C::

General category

- * Object oriented API::
- * Bit mask API::

Properties

- * Properties as objects::
- * Properties as functions::

unigbrk.h

- * Grapheme cluster breaks in a string::
- * Grapheme cluster break property::

uniwbrk.h

- * Word breaks in a string::
- * Word break property::

uninorm.h

- * Decomposition of characters::
- * Composition of characters::
- * Normalization of strings::
- * Normalizing comparisons::
- * Normalization of streams::

unicase,h

- * Case mappings of characters::
- * Case mappings of strings::
- * Case mappings of substrings::

```
* Case insensitive comparison::
* Case detection::
```

Using the library

```
* Installation::
* Compiler options::
* Include files::
* Autoconf macro::
* Reporting problems::
```

Licenses

```
* GNU GPL::           GNU General Public License
* GNU LGPL::         GNU Lesser General Public License
* GNU FDL::          GNU Free Documentation License
```

```
@end detailmenu
```

```
@end menu
```

```
@node Introduction
```

```
@chapter Introduction
```

This library provides functions for manipulating Unicode strings and for manipulating C strings according to the Unicode standard.

It consists of the following parts:

```
@table @code
@item <unistr.h>
elementary string functions
@item <unicnv.h>
conversion from/to legacy encodings
@item <unistdio.h>
formatted output to strings
@item <uniname.h>
character names
@item <unictype.h>
character classification and properties
@item <uniwidth.h>
string width when using nonproportional fonts
@item <unigbrk.h>
grapheme cluster breaks
@item <uniwbrk.h>
word breaks
@item <unilbrk.h>
line breaking algorithm
@item <uninorm.h>
normalization (composition and decomposition)
@item <unicase.h>
```

```

case folding
@item <uniregex.h>
regular expressions (not yet implemented)
@end table

@cindex use cases
@cindex value, of libunistring
libunistring is for you if your application involves non-trivial text
processing, such as upper/lower case conversions, line breaking, operations
on words, or more advanced analysis of text. Text provided by the user can,
in general, contain characters of all kinds of scripts. The text processing
functions provided by this library handle all scripts and all languages.

libunistring is for you if your application already uses the ISO C / POSIX
@posixheader{ctype.h), @posixheader{wctype.h) functions and the text it
operates on is provided by the user and can be in any language.

libunistring is also for you if your application uses Unicode strings as
internal in-memory representation.

@menu
* Unicode::                What is Unicode?
* Unicode and i18n::       Unicode and internationalization
* Locale encodings::       What is a locale encoding?
* In-memory representation:: How to represent strings in memory?
* char * strings::         What to keep in mind with @code{char *} strings
* Unicode strings::        How are Unicode strings represented?
@end menu

@node Unicode
@section Unicode

@cindex Unicode
Unicode is a standardized repertoire of characters that contains characters
from all scripts of the world, from Latin letters to Chinese ideographs
and Babylonian cuneiform glyphs. It also specifies how these characters
are to be rendered on a screen or on paper, and how common text processing
(word selection, line breaking, uppercasing of page titles etc.) is supposed
to behave on Unicode text.

Unicode also specifies three ways of storing sequences of Unicode
characters in a computer whose basic unit of data is an 8-bit byte:
@cindex UTF-8
@cindex UTF-16
@cindex UTF-32
@cindex UCS-4
@table @asis
@item UTF-8
Every character is represented as 1 to 4 bytes.
@item UTF-16

```

Every character is represented as 1 to 2 units of 16 bits.

@item UTF-32, a.k.a@. UCS-4

Every character is represented as 1 unit of 32 bits.

@end table

For encoding Unicode text in a file, UTF-8 is usually used. For encoding Unicode strings in memory for a program, either of the three encoding forms can be reasonably used.

Unicode is widely used on the web. Prior to the use of Unicode, web pages were in many different encodings (ISO-8859-1 for English, French, Spanish, ISO-8859-2 for Polish, ISO-8859-7 for Greek, KOI8-R for Russian, GB2312 or BIG5 for Chinese, ISO-2022-JP-2 or EUC-JP or Shift_JIS for Japanese, and many many others). It was next to impossible to create a document that contained Chinese and Polish text in the same document. Due to the many encodings for Japanese, even the processing of pure Japanese text was error prone.

References:

@itemize @bullet

@item

The Unicode standard:@texnl{} @url{https://www.unicode.org/}

@item

Definition of UTF-8:@texnl{} @url{https://www.rfc-editor.org/rfc/rfc3629.txt}

@item

Definition of UTF-16:@texnl{} @url{https://www.rfc-editor.org/rfc/rfc2781.txt}

@item

Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{} @url{https://www.cl.cam.ac.uk/~mgk25/unicode.html}

@url{https://www.cl.cam.ac.uk/~mgk25/unicode.html}

@end itemize

@node Unicode and i18n

@section Unicode and Internationalization

@cindex internationalization

Internationalization is the process of changing the source code of a program so that it can meet the expectations of users in any culture, if culture specific data (translations, images etc.) are provided.

Use of Unicode is not strictly required for internationalization, but it makes internationalization much easier, because operations that need to look at specific characters (like hyphenation, spell checking, or the automatic conversion of double-quotes to opening and closing double-quote characters) don't need to consider multiple possible encodings of the text.

Use of Unicode also enables multilingualization: the ability of having text in multiple languages present in the same document or even in the same line of text.

But use of Unicode is not everything. Internationalization usually consists of four features:

```

@itemize @bullet
@item
Use of Unicode where needed for text processing. This is what this library
is for.
@item
Use of message catalogs for messages shown to the user, This is what
GNU gettext is about.
@item
Use of locale specific conventions for date and time formats, for numeric
formatting, or for sorting of text. This can be done adequately with the
POSIX APIs and the implementation of locales in the GNU C library.
@item
In graphical user interfaces, adapting the GUI to the default text direction
of the current locale (see
@url{https://en.wikipedia.org/wiki/Right-to-left,right-to-left_languages}).
@end itemize

@node Locale encodings
@section Locale encodings

@cindex locale
A locale is a set of cultural conventions. According to POSIX, for a program,
at any moment, there is one locale being designated as the ``current locale''.
(Actually, POSIX supports also one locale per thread, but this feature is not
yet universally implemented and not widely used.)
@cindex locale categories
The locale is partitioned into several aspects, called the ``categories''
of the locale. The main various aspects are:
@itemize @bullet
@item
The character encoding and the character properties. This is the
@code{LC_CTYPE} category.
@item
The sorting rules for text. This is the @code{LC_COLLATE} category.
@item
The language specific translations of messages. This is the
@code{LC_MESSAGES} category.
@item
The formatting rules for numbers, such as the decimal separator. This is
the @code{LC_NUMERIC} category.
@item
The formatting rules for amounts of money. This is the @code{LC_MONETARY}
category.
@item
The formatting of date and time. This is the @code{LC_TIME} category.
@end itemize

@cindex locale encoding
In particular, the @code{LC_CTYPE} category of the current locale determines
the character encoding. This is the encoding of @samp{char *} strings.

```

We also call it the ``locale encoding''. GNU libunistring has a function, `@func{locale_charset}`, that returns a standardized (platform independent) name for this encoding.

All locale encodings used on glibc systems are essentially ASCII compatible: Most graphic ASCII characters have the same representation, as a single byte, in that encoding as in ASCII.

Among the possible locale encodings are UTF-8 and GB18030. Both allow to represent any Unicode character as a sequence of bytes. UTF-8 is used in most of the world, whereas GB18030 is used in the People's Republic of China, because it is backward compatible with the GB2312 encoding that was used in this country earlier.

The legacy locale encodings, ISO-8859-15 (which supplanted ISO-8859-1 in most of Europe), ISO-8859-2, KOI8-R, EUC-JP, etc., are still in use in some places, though.

UTF-16 and UTF-32 are not used as locale encodings, because they are not ASCII compatible.

@node In-memory representation
@section Choice of in-memory representation of strings

There are three ways of representing strings in memory of a running program.

@itemize @bullet

@item

As `@samp{char *}` strings. Such strings are represented in locale encoding. This approach is employed when not much text processing is done by the program. When some Unicode aware processing is to be done, a string is converted to Unicode on the fly and back to locale encoding afterwards.

@item

As UTF-8 or UTF-16 or UTF-32 strings. This implies that conversion from locale encoding to Unicode is performed on input, and in the opposite direction on output. This approach is employed when the program does a significant amount of text processing, or when the program has multiple threads operating on the same data but in different locales.

@item

As `@samp{wchar_t *}`, a.k.a. ``wide strings''. This approach is misguided, see [@ref{The wchar_t mess}](#).

@end itemize

Of course, a `@samp{char *}` string can, in some cases, be encoded in UTF-8. You will use the data type depending on what you can guarantee about how it's encoded: If a string is encoded in the locale encoding, or if you don't know how it's encoded, use `@samp{char *}`. If, on the other hand, you can *emph{guarantee}* that it is UTF-8 encoded, then you can use the UTF-8 string type, `@code{uint8_t *}`, for it.

The five types `@code{char *}`, `@code{uint8_t *}`, `@code{uint16_t *}`, `@code{uint32_t *}`, and `@code{wchar_t *}` are incompatible types at the C level. Therefore, `@samp{gcc -Wall}` will produce a warning if, by mistake, your code contains a mismatch between these types. In the context of using GNU libunistring, even a warning about a mismatch between `@code{char *}` and `@code{uint8_t *}` is a sign of a bug in your code that you should not try to silence through a cast.

```
@node char * strings
@section @samp{char *} strings
```

```
@cindex C string functions
```

The classical C strings, with its C library support standardized by ISO C and POSIX, can be used in internationalized programs with some precautions. The problem with this API is that many of the C library functions for strings don't work correctly on strings in locale encodings, leading to bugs that only people in some cultures of the world will experience.

```
@cindex locale, multibyte
```

The first problem with the C library API is the support of multibyte locales. According to the locale encoding, in general, every character is represented by one or more bytes (up to 4 bytes in practice --- but use `@code{MB_LEN_MAX}` instead of the number 4 in the code).

When every character is represented by only 1 byte, we speak of an ```unibyte locale''`, otherwise of a ```multibyte locale''`. It is important to realize that the majority of Unix installations nowadays use UTF-8 or GB18030 as locale encoding; therefore, the majority of users are using multibyte locales.

```
@cindex char, type
```

The important fact to remember is:

```
@cartouche
@emph{A @samp{char} is a byte, not a character.}
@end cartouche
```

As a consequence:

```
@itemize @bullet
```

```
@item
```

The `@posixheader{ctype.h}` API is useless in this context; it does not work in multibyte locales.

```
@item
```

The `@posixfunc{strlen}` function does not return the number of characters in a string. Nor does it return the number of screen columns occupied by a string after it is output. It merely returns the number of `@emph{bytes}` occupied by a string.

```
@item
```

Truncating a string, for example, with `@posixfunc{strncpy}`, can have the effect of truncating it in the middle of a multibyte character. Such a string will, when output, have a garbled character at its end, often

represented by a hollow box.

@item

@posixfunc{strchr} and @posixfunc{strrchr} do not work with multibyte strings if the locale encoding is GB18030 and the character to be searched is a digit.

@item

@posixfunc{strstr} does not work with multibyte strings if the locale encoding is different from UTF-8.

@item

@posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn} cannot work correctly in multibyte locales: they assume the second argument is a list of single-byte characters. Even in this simple case, they do not work with multibyte strings if the locale encoding is GB18030 and one of the characters to be searched is a digit.

@item

@posixfunc{strsep} and @posixfunc{strtok_r} do not work with multibyte strings unless all of the delimiter characters are ASCII characters < 0x30.

@item

The @posixfunc{strcasemp}, @posixfunc{strncasemp}, and @posixfunc{strcasestr} functions do not work with multibyte strings.

@end itemize

The workarounds can be found in GNU gnuilib

@url{https://www.gnu.org/software/gnuilib/}.

@itemize @bullet

@item

gnuilib has modules @samp{mbchar}, @samp{mbiter}, @samp{mbuiter} that represent multibyte characters and allow to iterate across a multibyte string with the same ease as through a unibyte string.

@item

gnuilib has functions @func{mbslen} and @func{mbswidth} that can be used instead of @posixfunc{strlen} when the number of characters or the number of screen columns of a string is requested.

@item

gnuilib has functions @func{mbschr} and @func{mbsrchr} that are like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.

@item

gnuilib has a function @func{mbsstr}, like @posixfunc{strstr}, but works in multibyte locales.

@item

gnuilib has functions @func{mbscspn}, @func{mbspbrk}, @func{mbssp} that are like @posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn}, but work in multibyte locales.

@item

gnuilib has functions @func{mbssep} and @func{mbstok_r} that are like @posixfunc{strsep} and @posixfunc{strtok_r} but work in multibyte locales.

@item

gnuilib has functions @func{mbscasemp}, @func{mbsncasemp}, @func{mbspcasemp}, and @func{mbscasestr} that are like @posixfunc{strcasemp}, @posixfunc{strncasemp}, and @posixfunc{strcasestr}, but

work in multibyte locales. Still, the function `ulc_casecmp` is preferable to these functions; see below.

@end itemize

The second problem with the C library API is that it has some assumptions built-in that are not valid in some languages:

@itemize @bullet

@item

It assumes that there are only two forms of every character: uppercase and lowercase. This is not true for Croatian, where the character `LETTER DZ WITH CARON` comes in three forms:

`LATIN CAPITAL LETTER DZ WITH CARON` (DZ),

`LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON` (Dz),

`LATIN SMALL LETTER DZ WITH CARON` (dz).

@item

It assumes that uppercasing of 1 character leads to 1 character. This is not true for German, where the `LATIN SMALL LETTER SHARP S`, when uppercased, becomes `SS`.

@item

It assumes that there is 1:1 mapping between uppercase and lowercase forms.

This is not true for the Greek sigma: `GREEK CAPITAL LETTER SIGMA` is

the uppercase of both `GREEK SMALL LETTER SIGMA` and

`GREEK SMALL LETTER FINAL SIGMA`.

@item

It assumes that the upper/lowercase mappings are position independent.

This is not true for the Greek sigma and the Lithuanian i.

@end itemize

The correct way to deal with this problem is

@enumerate

@item

to provide functions for titlecasing, as well as for upper- and lowercasing,

@item

to view case transformations as functions that operates on strings, rather than on characters.

@end enumerate

This is implemented in this library, through the functions declared in `unicase.h`, see [@ref{unicase.h}](#).

@node Unicode strings

@section Unicode strings

libunistring supports Unicode strings in three representations:

@cindex UTF-8, strings

@cindex UTF-16, strings

@cindex UTF-32, strings

@itemize @bullet

@item

UTF-8 strings, through the type @samp{uint8_t *}. The units are bytes (@code{uint8_t}).

@item

UTF-16 strings, through the type @samp{uint16_t *}, The units are 16-bit memory words (@code{uint16_t}).

@item

UTF-32 strings, through the type @samp{uint32_t *}. The units are 32-bit memory words (@code{uint32_t}).

@end itemize

As with C strings, there are two variants:

@itemize @bullet

@item

Unicode strings with a terminating NUL character are represented as a pointer to the first unit of the string. There is a unit containing a 0 value at the end. It is considered part of the string for all memory allocation purposes, but is not considered part of the string for all other logical purposes.

@item

Unicode strings where embedded NUL characters are allowed. These are represented by a pointer to the first unit and the number of units (not bytes!) of the string. In this setting, there is no trailing zero-valued unit used as ``end marker''.

@end itemize

@node Conventions

@chapter Conventions

This chapter explains conventions valid throughout the libunistring library.

@cindex argument conventions

Variables of type @code{char *} denote C strings in locale encoding. See @ref{Locale encodings}.

Variables of type @code{uint8_t *} denote UTF-8 strings. Their units are bytes.

Variables of type @code{uint16_t *} denote UTF-16 strings, without byte order mark. Their units are 2-byte words.

Variables of type @code{uint32_t *} denote UTF-32 strings, without byte order mark. Their units are 4-byte words.

Argument pairs @code{(@var{s}, @var{n})} denote a string @code{@var{s}[0..@var{n}-1]} with exactly @var{n} units.

All functions with prefix @samp{ulc_} operate on C strings in locale encoding.

All functions with prefix @samp{u8_} operate on UTF-8 strings.

All functions with prefix @samp{u16_} operate on UTF-16 strings.

All functions with prefix @samp{u32_} operate on UTF-32 strings.

For every function with prefix @samp{u8_}, operating on UTF-8 strings, there is also a corresponding function with prefix @samp{u16_}, operating on UTF-16 strings, and a corresponding function with prefix @samp{u32_}, operating on UTF-32 strings. Their description is analogous; in this documentation we describe only the function that operates on UTF-8 strings, for brevity.

A declaration with a variable @var{n} denotes the three concrete declarations with @var{n} = 8, @var{n} = 16, @var{n} = 32.

All parameters starting with @samp{str} and the parameters of functions starting with @code{u8_str}/@code{u16_str}/@code{u32_str} denote a NUL terminated string.

@cindex return value conventions

Error values are always returned through the @code{errno} variable, usually with a return value that indicates the presence of an error (NULL for functions that return a pointer, or -1 for functions that return an @code{int}).

Functions returning a string result take a @code{(@var{resultbuf}, @var{lengthp})} argument pair. If @var{resultbuf} is not NULL and the result fits into @code{*@var{lengthp}} units, it is put in @var{resultbuf}, and @var{resultbuf} is returned. Otherwise, a freshly allocated string is returned. In both cases, @code{*@var{lengthp}} is set to the length (number of units) of the returned string. In case of error, NULL is returned and @code{errno} is set.

```
@include unitypes.texi
#include unistr.texi
#include uniconv.texi
#include unistdio.texi
#include uniname.texi
#include unictype.texi
#include uniwidth.texi
#include unigbrk.texi
#include uniwbrk.texi
#include unilbrk.texi
#include uninorm.texi
#include unicast.texi
#include uniregex.texi
```

@node Using the library

@chapter Using the library

This chapter explains some practical considerations, regarding the installation and compiler options that are needed in order to use this library.

```
@menu
```

```
* Installation::
* Compiler options::
* Include files::
* Autoconf macro::
* Reporting problems::
```

```
@end menu
```

```
@node Installation
```

```
@section Installation
```

```
@cindex dependencies
```

Before you can use the library, it must be installed. First, you have to make sure all dependencies are installed. They are listed in the file `@file{DEPENDENCIES}`.

```
@cindex installation
```

Then you can proceed to build and install the library, as described in the file `@file{INSTALL}`. For installation on Windows systems, please refer to the file `@file{INSTALL.windows}`.

```
@node Compiler options
```

```
@section Compiler options
```

Let's denote as `@code{LIBUNISTRING_PREFIX}` the value of the `@samp{--prefix}` option that you passed to `@code{configure}` while installing this package. If you didn't pass any `@samp{--prefix}` option, then the package is installed in `@file{/usr/local}`.

Let's denote as `@code{LIBUNISTRING_INCLUDEDIR}` the directory where the include files were installed. This is usually the same as `@code{${LIBUNISTRING_PREFIX}/include}`. Except that if you passed an `@samp{--includedir}` option to `@code{configure}`, it is the value of that option.

Let's further denote as `@code{LIBUNISTRING_LIBDIR}` the directory where the library itself was installed. This is the value that you passed with the `@samp{--libdir}` option to `@code{configure}`, or otherwise the same as `@code{${LIBUNISTRING_PREFIX}/lib}`. Recall that when building in 64-bit mode on a 64-bit GNU/Linux system that supports executables in either 64-bit mode or 32-bit mode, you should have used the option `@code{--libdir=${LIBUNISTRING_PREFIX}/lib64}`.

```
@cindex compiler options
```

So that the compiler finds the include files, you have to pass it the

```
option @code{-I${LIBUNISTRING_INCLUDEDIR}}.
```

So that the compiler finds the library during its linking pass, you have to pass it the options @code{-L\${LIBUNISTRING_LIBDIR} -lunistring}. On some systems, in some configurations, you also have to pass options needed for linking with @code{libiconv}. The autoconf macro @code{gl_LIBUNISTRING} (see @ref{Autoconf macro}) deals with this particularity.

```
@node Include files
@section Include files
```

Most of the include files have been presented in the introduction, see @ref{Introduction}, and subsequent detailed chapters.

Another include file is @code{<unistring/version.h>}. It contains the version number of the libunistring library.

```
@deftypevr Macro int _LIBUNISTRING_VERSION
This constant contains the version of libunistring that is being used
at compile time. It encodes the major and minor parts of the version
number only. These parts are encoded in the form @code{(major<<8) + minor}.
@end deftypevr
```

```
@deftypevr Constant int _libunistring_version
This constant contains the version of libunistring that is being used
at run time. It encodes the major and minor parts of the version
number only. These parts are encoded in the form @code{(major<<8) + minor}.
@end deftypevr
```

It is possible that @code{_libunistring_version} is greater than @code{_LIBUNISTRING_VERSION}. This can happen when you use @code{libunistring} as a shared library, and a newer, binary backward-compatible version has been installed after your program that uses @code{libunistring} was installed.

```
@node Autoconf macro
@section Autoconf macro
```

```
@cindex autoconf macro
GNU GnuLib provides an autoconf macro that tests for the availability
of @code{libunistring}. It is contained in the GnuLib module
@samp{libunistring}, see@texnl{}
@url{https://www.gnu.org/software/gnulib/MODULES.html#module=libunistring}.
```

```
@amindex gl_LIBUNISTRING
The macro is called @code{gl_LIBUNISTRING}. It searches for an installed
libunistring. If found, it sets and AC_SUBSTs @code{HAVE_LIBUNISTRING=yes}
and the @code{LIBUNISTRING} and @code{LTLIBUNISTRING} variables and augments
the @code{CPPFLAGS} variable, and defines the C macro
```

`HAVE_LIBUNISTRING` to 1. Otherwise, it sets `AC_SUBSTS`
`HAVE_LIBUNISTRING=no` and `LIBUNISTRING` and `LTLIBUNISTRING`
to empty.

The complexities that `gl_LIBUNISTRING` deals with are the following:

`itemize @bullet`

`item`

On some operating systems, in some configurations, `libunistring` depends
on `libiconv`, and the options for linking with `libiconv` must be
mentioned explicitly on the link command line.

`item`

GNU `libunistring`, if installed, is not necessarily already in the
search path (`CPPFLAGS` for the include file search path,
`LDFLAGS` for the library search path).

`item`

GNU `libunistring`, if installed, is not necessarily already in the
run time library search path. To avoid the need for setting an environment
variable like `LD_LIBRARY_PATH`, the macro adds the appropriate
run time search path options to the `LIBUNISTRING` variable. This works
on most systems.

`end itemize`

`node Reporting problems`

`section Reporting problems`

`cindex bug reports`

`cindex bug tracker`

`cindex mailing list`

If you encounter any problem, please don't hesitate to submit a detailed
bug report either in the bug tracker at the project page
[url{https://savannah.gnu.org/projects/libunistring}](https://savannah.gnu.org/projects/libunistring), or by email
to the `bug-libunistring@gnu.org` mailing list.

Please always include the version number of this library, and a short
description of your operating system and compilation environment with
corresponding version numbers.

For problems that appear while building and installing `libunistring`,
for which you don't find the remedy in the `INSTALL` file, please include
a description of the options that you passed to the `configure` script.

`node More functionality`

`chapter More advanced functionality`

`cindex bidirectional reordering`

For bidirectional reordering of strings, we recommend the GNU FriBidi library:
[url{http://www.fribidi.org/}](http://www.fribidi.org/).

```
@cindex rendering
For the rendering of Unicode strings outside of the context of a given toolkit
(KDE/Qt or GNOME/Gtk), we recommend the Pango library:
@url{https://www.pango.org/}.
```

```
@include wchar_t.texi
```

```
@include char32_t.texi
```

```
@node Licenses
@appendix Licenses
@cindex Licenses
```

The files of this package are covered by the licenses indicated in each particular file or directory. Here is a summary:

```
@itemize @bullet
@item
The @code{libunistring} library and its header files are dual-licensed under
"the GNU LGPLv3+ or the GNU GPLv2+". This means, you can use it under either
@itemize @bullet
@item @minus{}
the terms of the GNU Lesser General Public License (LGPL) version 3 or
(at your option) any later version, or
@item @minus{}
the terms of the GNU General Public License (GPL) version 2 or
(at your option) any later version, or
@item @minus{}
the same dual license "the GNU LGPLv3+ or the GNU GPLv2+".
@end itemize
You find the GNU LGPL version 3 in @ref{GNU LGPL}. This license is
based on the GNU GPL version 3, see @ref{GNU GPL}.
@*
You can find the GNU GPL version 2 at
@url{https://www.gnu.org/licenses/old-licenses/gpl-2.0.html}.
@*
Note: This dual license makes it possible for the @code{libunistring} library
to be used by packages under GPLv2 or GPLv2+ licenses, in particular. See
the table in @url{https://www.gnu.org/licenses/gpl-faq.html#AllCompatibility}.
```

```
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@end itemize

@menu

* GNU GPL::	GNU General Public License
* GNU LGPL::	GNU Lesser General Public License
* GNU FDL::	GNU Free Documentation License

@end menu

@page

@node GNU GPL

@appendixsec GNU GENERAL PUBLIC LICENSE

@cindex GPL, GNU General Public License

@cindex License, GNU GPL

@include gpl.texi

@page

@node GNU LGPL

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, GNU Lesser General Public License

@cindex License, GNU LGPL

@include lgpl.texi

@page

@node GNU FDL

@appendixsec GNU Free Documentation License

@cindex FDL, GNU Free Documentation License

@cindex License, GNU FDL

@include fdl.texi

@node Index

@unnumbered Index

@printindex cp

@bye

@c Local Variables:

@c indent-tabs-mode: nil

@c whitespace-check-buffer-indent: nil

@c End:

=====

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=====

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=====

liburcu-0.13.2: LICENSE

=====

Userspace RCU library licensing
Mathieu Desnoyers
September 3, 2012

* LGPLv2.1

The library part is distributed under LGPLv2.1 or later. See lgpl-2.1.txt for license details. Refer to the individual file headers for details.

LGPL-compatible source code can statically use the library header using :

```
#define _LGPL_SOURCE
#include <urcu.h>
```

Dynamic-only linking with the LGPL library is used if `_LGPL_SOURCE` is not defined. It permits relinking with newer versions of the library, which is required by the LGPL license.

See `lgpl-relicensing.txt` for details.

* MIT-style license :

xchg() primitive has been rewritten from scratch starting from atomic_ops 1.2 which has a MIT-style license that is intended to allow use in both free and proprietary software:

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http://www.hpl.hp.com/personal/Hans_Boehm/gc/gc_source/

This MIT-style license (BSD like) apply to:

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uatomic/unknown.h
uatomic/generic.h
uatomic/sparc64.h
uatomic/arm.h
uatomic/ppc.h
uatomic/x86.h
uatomic.h

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arch/s390.h
uatomic/alpha.h
uatomic/mips.h
uatomic/nios2.h
uatomic/s390.h
system.h

* GPLv2

Library test code is distributed under the GPLv2 license. See gpl-2.0.txt for license details. See headers of individual files under tests/ for details.

* GPLv3 (or later)

The following build-related macro is under GPLv3 (or later):

m4/ax_tls.m4

```
=====
liburcu-0.13.2: include/urcu/urcu.h, 4-32
=====

/*
 * urcu.h
 *
 * Userspace RCU header
```

```

*
* Copyright (c) 2009 Mathieu Desnoyers <mathieu.desnoyers@efficios.com>
* Copyright (c) 2009 Paul E. McKenney, IBM Corporation.
*
* LGPL-compatible code should include this header with :
*
* #define _LGPL_SOURCE
* #include <urcu.h>
*
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*
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*/

=====
liburcu-0.13.2: include/urcu/uatomic/x86.h, 4-21
=====

/*
* Copyright (c) 1991-1994 by Xerox Corporation. All rights reserved.
* Copyright (c) 1996-1999 by Silicon Graphics. All rights reserved.
* Copyright (c) 1999-2004 Hewlett-Packard Development Company, L.P.
* Copyright (c) 2009 Mathieu Desnoyers
*
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* Permission to modify the code and to distribute modified code is granted,
* provided the above notices are retained, and a notice that the code was
* modified is included with the above copyright notice.
*
* Code inspired from libuatomic_ops-1.2, inherited in part from the
* Boehm-Demers-Weiser conservative garbage collector.
*/
=====

```

libusb1-1.0.26: COPYING

=====

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Version 2.1, February 1999

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```

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

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test-alg-pbkdf-hmac-sha256.c
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test-getrandom-interface.c, test-symbols-compat.sh,
test-symbols-renames.sh, test-symbols-static.sh,
build-aux/scripts/gen-crypt-h,
build-aux/scripts/gen-crypt-symbol-vers-h,
build-aux/scripts/gen-libcrypt-map,

```
build-aux/scripts/skip-if-exec-format-error,  
build-aux/m4/zw_alignment.m4, build-aux/m4/zw_static_assert.m4,  
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 test-crypt-md5.c, test-crypt-sha256.c, test-crypt-sha512.c,
 test-des-cases.h, test-des-obsolete{,_r}.c, test-gensalt.c,
 test-crypt-nthash.c (adaption of test-crypt-des.c),
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```
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   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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=====
libxi-1.8: src/XIGetDevFocus.c, 1-23
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libxinerama-1.1.4: src/Xinerama.c, 2-25
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libxml2-2.9.14: hash.c, 6-15
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```
lpkit-udev-common-1.0: sources/poky/meta/files/common-licenses/MIT
=====
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=====
lsuf-4.94.0: 00README, 645-679
=====
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```

Bug Reports

```

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lttng-ust-2.13.5: LICENSE
=====

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snprintf/mbrtowc_sb.c
snprintf/snprintf.c
snprintf/various.h
snprintf/vfprintf.c
snprintf/wcio.h:5
snprintf/wsetup.c
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```

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```
=====
lzo-2.10: src/lzo_init.c, 5-25
=====
```

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```
=====
mesa-22.0.3: docs/license.rst
=====
```

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```
=====
ncurses-6.3: ncurses/base/version.c, 1-27
=====
```

```
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=====
nettle-3.7.3: serpent-decrypt.c, 14-36
nettle-3.7.3: serpent-set-key.c, 14-36
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```
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```

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=====
nspr-4.29: configure.in, 3-6
=====
```

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```
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```

```
MOD_DEPTH    = .
topsrcdir    = @top_srcdir@
srcdir       = @srcdir@
VPATH        = @srcdir@
```

```
include $(MOD_DEPTH)/config/autoconf.mk
```

```
DIRS = config pr lib
```

```
ifdef MOZILLA_CLIENT
```

```
# Make nsinstall use absolute symlinks by default for Mozilla OSX builds
```

```
# http://bugzilla.mozilla.org/show_bug.cgi?id=193164
ifeq ($(OS_ARCH), Darwin)
ifndef NSDISTMODE
NSDISTMODE=absolute_symlink
export NSDISTMODE
endif
endif
endif
```

```
DIST_GARBAGE = config.cache config.log config.status
```

```
all:: config.status export
```

```
include $(topsrcdir)/config/rules.mk
```

```
config.status:: configure
```

```
ifeq ($(OS_ARCH), WINNT)
```

```
    sh $(srcdir)/configure --no-create --no-recursion
```

```
else
```

```
=====  
nss-3.74: nss/COPYING  
=====
```

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```

```
=====
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```

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=====
shadow-4.11.1: COPYING
=====
```

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```

```
=====
shadow-4.11.1: src/passwd.c, 2-30
=====
```

```
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*
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*/
```

```
#include <config.h>
```

```
#ident "$Id$"
```

```
#include <errno.h>
#include <fcntl.h>
#include <getopt.h>
#include <pwd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <time.h>
#include "defines.h"
#include "getdef.h"
#include "nscd.h"
#include "sssd.h"
#include "prototypes.h"
#include "pwauth.h"
#include "pwio.h"
#include "shadowio.h"
#include "shadowlog.h"
```

```
=====
sqlite3-3.38.5: sqlite3.h, 1-11
=====
```

```
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**
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```

```

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```

```

*****

```

```

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=====

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```

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=====
sysstat-12.4.5: COPYING
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```

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xcb-util-0.4.0: src/xcb_aux.c, 1-30  
=====
```

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xcb-util-0.4.0: src/xcb_event.h, 1-27  
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=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====

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=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====

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=====
xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30
=====
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=====
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24
=====
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=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====
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=====
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24
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=====
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
=====
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=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
=====
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=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====

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=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
=====

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xinput-calibrator-0.7.5+git: src/calibrator.cpp, 1-22
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```
=====
xterm-372: xterm.h, 3-31
=====
```

```
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```
=====
xz-5.2.6: lib/getopt.c, 1-23
=====
```

```
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```

```
NOTE: getopt is now part of the C library, so if you don't know what
"Keep this file name-space clean" means, talk to drepper@gnu.org
before changing it!
```

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zlib-1.2.11: zlib.h, 6-23
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