

R&S[®]SMA100B

RF and Microwave Signal Generator Open Source Acknowledgment



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Version 10.00

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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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- 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
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
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
babel-jest	27.5.1	MIT License
babel-loader	8.2.3	MIT License

Package	Version	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
babel/helper-builder-binary-assignment-operator-visitor	7.16.7	MIT License
babel/helper-compilation-targets	7.17.7	MIT License
babel/helper-create-class-features-plugin	7.21.0	MIT License
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babel/helper-define-polyfill-provider	0.3.1	MIT License

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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
babel/helper-module-imports	7.16.7	MIT License
babel/helper-module-transforms	7.17.7	MIT License
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babel/helper-validator-option	7.21.0	MIT License
babel/helper-wrap-function	7.16.8	MIT License
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babel/parser	7.21.2	MIT License
babel/plugin-bugfix-safari-id-structuring-collision-in-function-expression	7.16.7	MIT License
babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining	7.16.7	MIT License
babel/plugin-proposal-async-generator-functions	7.16.8	MIT License
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babel/plugin-proposal-export-namespace-from	7.16.7	MIT License
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babel/plugin-transform-for-of	7.16.7	MIT License

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babel/plugin-transform-modules-systemjs	7.17.8	MIT License
babel/plugin-transform-modules-umd	7.16.7	MIT License
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babel/plugin-transform-regenerator	7.16.7	MIT License
babel/plugin-transform-reserved-words	7.16.7	MIT License
babel/plugin-transform-shorthand-properties	7.16.7	MIT License
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babel/plugin-transform-template-literals	7.16.7	MIT License
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
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binary-extensions	2.2.0	MIT License
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
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boost	1.78.0	Boost Software License 1.0 AND MIT License AND Python License 2.0
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
buffer	5.7.1	MIT License
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 License
cacache	15.3.0	ISC License
cacache	16.0.3	ISC License
cachedir	2.3.0	MIT License
call-bind	1.0.2	MIT License
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
chardet	0.7.0	MIT License
check-more-types	2.24.0	MIT License
chokidar	3.5.3	MIT License

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chownr	2.0.0	ISC License
chrome-trace-event	1.0.3	MIT License
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
cjson	1.7.15	MIT License
classlist.js	1.1.20150312	Public Domain
clean-stack	2.2.0	MIT License
cli-cursor	3.1.0	MIT License
cli-spinners	2.6.1	MIT License
cli-table3	0.6.3	MIT License
cli-truncate	2.1.0	MIT License
cli-width	3.0.0	ISC License
cliui	6.0.0	ISC License
clone	1.0.4	MIT License
clone-deep	4.0.1	MIT License
co	4.6.0	MIT License
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color-convert	1.9.3	MIT License
color-convert	2.0.1	MIT License
color-name	1.1.3	MIT License
color-name	1.1.4	MIT License
color-support	1.1.3	ISC License
colorette	2.0.16	MIT License
colors/colors	1.5.0	MIT License
combined-stream	1.0.8	MIT License
commander	2.20.3	MIT 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
core-js	3.21.1	MIT License
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
create-require	1.1.1	MIT License
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	7.87.0	curl License
curl	7.82.0	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
dashdash	1.14.1	MIT License
data-urls	2.0.0	MIT License
dayjs	1.11.7	MIT License
dbus	1.14.8	Academic Free License v2.1 OR GPL-2.0-or-later License
debug	3.2.7	MIT License
debug	4.3.3	MIT License

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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
dlt-daemon	2.18.8+2.18.9git AUTOINC +6a3bd901d8	MPL-2.0 License
dmidecode	3.3	GPL-2.0-only License
Docker-compose stack for Prome- theus monitoring	ae31b4743bf11a 9ff59a88edc019 7f36e2e3eb21	MIT License
doctrine	3.0.0	Apache License 2.0
domexception	2.0.1	MIT License
dosfstools	4.2	GPL-3.0-only License
dotenv	10.0.0	BSD 2-clause "Simplified" License
double-conver- sion (V8 project)	unspecific	BSD 3-clause "New" or "Revised" License
dropbear	2020.81	MIT License AND BSD 3-Clause License AND BSD 2-Clause License AND Public Domain
e-wm-16	1.0.13	Enlightenment License (e16)

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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
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

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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
espreet	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
extrace	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
fast-deep-equal	3.1.3	MIT License
fast-glob	3.2.7	MIT License
fast-json-stable-stringify	2.1.0	MIT License

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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
focus-visible	5.2.0	W3C Software Notice and License (2002-12-31)
font-alias	1.0.4	MIT License
font-util	1.3.3	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
fontconfig	2.13.1	MIT License AND MIT License AND Public Domain
forever-agent	0.6.1	Apache License 2.0
fork-ts-checker-webpack-plugin	6.2.10	MIT License
form-data	2.3.3	MIT License
form-data	3.0.1	MIT License
formfactor	0.0	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

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fs.realpath	1.0.0	ISC License
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fuse	2.9.9	GPL-2.0-only License AND LGPL-2.0-only License
gar/promisify	1.1.3	MIT License
gauge	4.0.3	ISC License
gcc-runtime	11.4.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1
gdb	11.2	GPL-2.0-only License AND GPL-3.0-only License AND LGPL-2.0-only License AND LGPL-3.0-only License
gensync	1.0.0-beta.2	MIT License
get-caller-file	2.0.5	ISC License
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get-package-type	0.1.0	MIT License
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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
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glob	7.1.4	ISC License
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

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gnutls	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
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html-encoding-sniffer	2.0.1	MIT License
html-escaper	2.0.2	MIT License
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http-proxy-agent	5.0.0	MIT License
http-signature	1.3.6	MIT License

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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
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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
infer-owner	1.0.4	ISC License
inflight	1.0.6	ISC License
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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
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is-docker	2.2.1	MIT License
is-extglob	2.1.1	MIT License

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is-interactive	1.0.0	MIT License
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is-plain-object	2.0.4	MIT License
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isexe	2.0.0	ISC License
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istanbuljs/schema	0.1.3	MIT License
jake	10.8.5	Apache License 2.0
jansson	2.13.1	MIT License

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jbig2dec	0.17	AGPL-3.0-or-later License
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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
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jest-resolve	27.2.2	MIT License
jest-resolve	27.5.1	MIT License
jest-runner	27.5.1	MIT License
jest-runtime	27.5.1	MIT License
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jest-snapshot	27.5.1	MIT License
jest-util	27.2.0	MIT License
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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/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
jridgewell/gen-mapping	0.3.2	MIT License
jridgewell/resolve-uri	3.1.0	MIT License
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jridgewell/sourcemap-codec	1.4.14	MIT License
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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

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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	1.3.0	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
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libev	4.33	BSD 2-Clause License OR GPL-2.0-or-later License
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libftdi	1.4	LGPL-2.1-only License AND GPL-2.0-only License

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libuv	1.44.2	MIT License
libvncserver	0.9.13	GPL-2.0-only License
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libxcb	1.14	MIT License
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loader-utils	1.4.0	MIT License
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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

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make-fetch-happen	10.0.6	ISC License
make-fetch-happen	9.1.0	ISC License
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mhddfs	0.1.39+git	GPL-3.0-or-later License
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mime-types	2.1.35	MIT License
mimic-fn	2.1.0	MIT License
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minimatch	5.1.6	ISC License
minimist	1.2.6	MIT License
minipass	3.1.6	ISC License

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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-ng	3.0.6	zlib License
minizlib	2.1.2	MIT License
mkdirp	1.0.4	MIT License
mkfontscale	1.2.2	MIT License
mosquitto	2.0.14	EPL-2.0 License OR EDL-1.0 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
natural-compare	1.4.0	MIT License
ncurses	6.3+20220423	MIT License
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neo-async	2.6.2	MIT License
net-snmp	5.9.3	BSD 3-Clause License AND MIT License
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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

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ngx-translate/ core	13.0.0	MIT License
ngx-translate/ http-loader	6.0.0	MIT License
nlohman_json	3.11.2	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
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npm-install- checks	4.0.0	BSD 2-clause "Simplified" License

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npm-packlist	3.0.0	ISC License
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npmcli/fs	2.1.0	ISC License
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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

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nwsapi	2.2.0	MIT License
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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
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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-tmpdir	1.0.2	MIT License
ospath	1.2.2	MIT License
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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
paho-mqtt-c	1.3.9	Eclipse Public License - v 2.0
paho-mqtt-cpp	1.2.0	Eclipse Public License - v 2.0
parcel/watcher	2.0.4	MIT License
parent-module	1.0.1	MIT License

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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
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phenomnomnominal/tsquery	4.1.1	MIT License
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pify	2.3.0	MIT License
pirates	4.0.5	MIT License
pixman	0.40.0	MIT License AND Public Domain
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Poco	1.11.0	Boost Software License 1.0
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

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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
qs	6.10.4	BSD 3-clause "New" or "Revised" License
qtbases	5.15.13+git	GNU Free Documentation License v1.3 AND BSD 3-Clause License AND (IGPL-3.0-only License AND Qt GPL Exception 1.0 OR Qt Commercial License)) AND (IGPL-2.0-or-later License OR LGPL-3.0-only License OR Qt Commercial License)) AND
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tsconfig-paths-webpack-plugin	3.5.2	MIT License
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unicode-property-aliases-ecmascript	2.0.0	MIT License
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w3c-hr-time	1.0.2	MIT License
w3c-xmlserializer	2.0.0	MIT License

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webassemblyjs/floating-point-hex-parser	1.11.1	MIT License
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webidl-conversions	6.1.0	BSD 2-clause "Simplified" License
webpack	5.70.0	MIT License
webpack-merge	5.7.3	MIT License

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webpack-sources	3.2.3	MIT License
whatwg-encoding	1.0.5	MIT License
whatwg-mimetype	2.3.0	MIT License
whatwg-url	8.7.0	MIT License
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which-module	2.0.0	ISC License
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xcb-util-image	0.4.0	MIT License
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xf86-input-evdev	2.10.6	MIT License
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xf86-input-synaptics	1.9.2	MIT License
xf86-video-ati	19.1.0	MIT License
xf86-video-fbdev	0.5.0	MIT License
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LLVM Compiler is developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

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3.14 GCC Runtime Library exception 3.1

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Version 3.1, 31 March 2009

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Version 2.1, February 1999

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MD4 (RFC-1320) message digest.

Modified from MD5 code < by Andrey Panin pazke@donpac.ru >

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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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<https://github.com/deanm/css-color-parser-js>

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tao_tuple

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unique_resource

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nunicode

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ARCore SDK client library for Chrome

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Breakpad, An open-source multi-platform crash reportingsystem

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Chrome Custom Tabs - Example and Usage

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Chromium OS system API

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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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Crashpad

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CRC32C

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d3

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dynamic annotations

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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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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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google-glog's symbolization library

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

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google-jstemplate

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Following applies to: ./test/mapstaticmethods.cpp ./test/schur_real.cpp ./test/prec_inverse_4x4.cpp ./test/smallvectors.cpp ./test/redux.cpp ./test/special_numbers.cpp ./test/adjoint.cpp ./test/cholesky.cpp ./test/mixingtypes.cpp ./test/product_trmv.cpp ./test/sparse_solvers.cpp ./test/cholesky.cpp ./test/geo_quaternion.cpp ./test/miscmatrices.cpp ./test/stddeque.cpp ./test/integer_types.cpp ./test/product_large.cpp ./test/eigensolver_generalized.cpp ./test/householder.cpp ./test/geo_orthomethods.cpp ./test/array_for_matrix.cpp ./test/sparseL.cpp ./test/upperbidiagonalization.cpp ./test/nomalloc.cpp ./test/packetmath.cpp ./test/jacobisvd.cpp ./test/geo_transformations.cpp ./test/swap.cpp ./test/eigensolver_selfadjoint.cpp ./test/inverse.cpp ./test/product_selfadjoint.cpp ./test/product_trsolve.cpp ./test/product_extra.cpp ./test/sparseL.cpp ./test/mapstride.cpp ./test/mapped_matrix.cpp ./test/geo_eulerangles.cpp ./test/eigen2support.cpp ./test/denseLM.cpp ./test/stdvector.cpp ./test/nesting_ops.cpp ./test/sparse_permutations.cpp ./test/zerosized.cpp ./test/exceptions.cpp ./test/vectorwiseop.cpp ./test/cwiseop.cpp ./test/linearstructure.cpp ./test/product_trmm.cpp ./test/linearstructure.cpp ./test/sparse_product.cpp ./test/stdvector.cpp ./test/stable_norm.cpp ./test/umeyama.cpp ./test/unalignedcount.cpp ./test/triangular.cpp ./test/product_mmtr.cpp ./test/sparse_basic.cpp ./test/sparse_vector.cpp ./test/meta.cpp ./test/ref.cpp ./test/eigensolver_complex.cpp ./test/cholmod_support.cpp ./test/conjugate_gradient.cpp ./test/sparse.h ./test/simplicial_cholesky.cpp ./test/bicgstab.cpp ./test/dynalloc.cpp ./test/product_notemporary.cpp ./test/geo_hyperplane.cpp ./test/lu.cpp ./test/qr.cpp ./test/hessenberg.cpp ./test/sizeof.cpp ./test/selfadjoint.cpp ./test/permutationmatrices.cpp ./test/superlu_support.cpp ./test/qtvector.cpp ./test/geo_homogeneous.cpp ./test/determinant.cpp ./test/array_reverse.cpp ./test/unalignedassert.cpp ./test/stdlist.cpp ./test/product_symm.cpp ./test/corners.cpp ./test/dontalign.cpp ./test/visiting.cpp ./test/geo_alignedbox.cpp ./test/diagonalmatrices.cpp ./test/product_small.cpp ./test/eigensolver_generalized_real.cpp ./test/umfpack_support.cpp ./test/first_aligned.cpp ./test/qr_fullpivoting.cpp ./test/array_replicate.cpp ./test/geo_parametrizedline.cpp ./test/eigen2/eigen2_unalignedassert.cpp ./test/eigen2/eigen2_prec_inverse_4x4.cpp ./test/eigen2/eigen2_alignedbox.cpp ./test/eigen2/eigen2_sparse_product.cpp ./test/eigen2/eigen2_nomalloc.cpp ./test/eigen2/eigen2_visitor.cpp ./test/eigen2/eigen2_packetmath.cpp

```

./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
./test/eigen2/eigen2_parametrizedline.cpp ./test/eigen2/eigen2_lu.cpp ./test/eigen2/eigen2_ad
./test/eigen2/eigen2_geometry.cpp ./test/eigen2/eigen2_stdvector.cpp ./test/eigen2/eigen2_new
./test/eigen2/eigen2_submatrices.cpp
./test/eigen2/sparse.h ./test/eigen2/eigen2_swap.cpp ./test/eigen2/eigen2_triangular.cpp
./test/eigen2/eigen2_basicstuff.cpp ./test/eigen2/gsl_helper.h ./test/eigen2/eigen2_dynalloc.
./test/eigen2/eigen2_array.cpp ./test/eigen2/eigen2_map.cpp ./test/eigen2/main.h
./test/eigen2/eigen2_miscmatrices.cpp ./test/eigen2/eigen2_product_large.cpp
./test/eigen2/eigen2_first_aligned.cpp ./test/eigen2/eigen2_cholesky.cpp
./test/eigen2/eigen2_determinant.cpp ./test/eigen2/eigen2_sum.cpp ./test/eigen2/eigen2_inverse
./test/eigen2/eigen2_regression.cpp ./test/eigen2/eigen2_product_small.cpp
./test/eigen2/eigen2_qtvector.cpp ./test/eigen2/eigen2_sparse_vector.cpp ./test/eigen2/product
./test/eigen2/eigen2_sparse_basic.cpp ./test/eigen2/eigen2_bug_132.cpp ./test/array.cpp
./test/product_syrk.cpp ./test/commainitializer.cpp ./test/conservative_resize.cpp ./test/qr_
./test/nullary.cpp ./test/bandmatrix.cpp ./test/pastix_support.cpp ./test/product.h ./test/bl
./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
./bench/spbench/spbenchsolver.h ./bench/spbench/spbenchstyle.h ./lapack/complex_double.cpp
./lapack/cholesky.cpp ./lapack/lapack_common.h ./lapack/eigenvalues.cpp ./lapack/single.cpp
./lapack/complex_single.cpp ./lapack/double.cpp ./demos/mix_eigen_and_c/binary_library.cpp
./demos/mix_eigen_and_c/binary_library.h ./demos/mix_eigen_and_c/example.c
./demos/mandelbrot/mandelbrot.cpp
./demos/mandelbrot/mandelbrot.h ./demos/opengl/icosphere.cpp ./demos/opengl/icosphere.h
./demos/opengl/camera.cpp ./demos/opengl/quaternion_demo.h ./demos/opengl/camera.h
./demos/opengl/trackball.h ./demos/opengl/gpuhelper.h ./demos/opengl/trackball.cpp
./demos/opengl/gpuhelper.cpp ./demos/opengl/quaternion_demo.cpp ./debug/gdb/printers.py
./unsupported/test/minres.cpp ./unsupported/test/openglsupport.cpp ./unsupported/test/jacobis
./unsupported/test/dgmres.cpp ./unsupported/test/matrix_square_root.cpp ./unsupported/test/bd
./unsupported/test/matrix_exponential.cpp ./unsupported/test/forward_adolc.cpp
./unsupported/test/polynomialsolver.cpp ./unsupported/test/matrix_function.cpp
./unsupported/test/sparse_extra.cpp ./unsupported/test/matrix_functions.h ./unsupported/test/
./unsupported/test/FFTW.cpp ./unsupported/test/alignedvector3.cpp ./unsupported/test/autodiff
./unsupported/test/gmres.cpp ./unsupported/test/BVH.cpp ./unsupported/test/levenberg_marquardt
./unsupported/test/matrix_power.cpp ./unsupported/test/kronecker_product.cpp
./unsupported/test/splines.cpp ./unsupported/test/polynomialutils.cpp ./unsupported/bench/ben
./unsupported/Eigen/IterativeSolvers ./unsupported/Eigen/src/IterativeSolvers/DGMRES.h
./unsupported/Eigen/src/IterativeSolvers/IncompleteLU.h ./unsupported/Eigen/src/IterativeSolv
./unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h
./unsupported/Eigen/src/IterativeSolvers/Scaling.h ./unsupported/Eigen/src/IterativeSolvers/M
./unsupported/Eigen/src/SparseExtra/RandomSetter.h
./unsupported/Eigen/src/SparseExtra/MatrixMarketIterator.h
./unsupported/Eigen/src/SparseExtra/DynamicSparseMatrix.h
./unsupported/Eigen/src/SparseExtra/MarketIO.h
./unsupported/Eigen/src/SparseExtra/BlockOfDynamicSparseMatrix.h
./unsupported/Eigen/src/KroneckerProduct/KroneckerTensorProduct.h
./unsupported/Eigen/src/NonLinearOptimization/LevenbergMarquardt.h

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./unsupported/Eigen/src/NonLinearOptimization/HybridNonLinearSolver.h
./unsupported/Eigen/src/BVH/BVAlgorithms.h ./unsupported/Eigen/src/BVH/KdBVH.h
./unsupported/Eigen/src/AutoDiff/AutoDiffScalar.h ./unsupported/Eigen/src/AutoDiff/AutoDiffJacobi.h
./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
./unsupported/Eigen/src/SVD/SVDBase.h ./unsupported/Eigen/src/MatrixFunctions/MatrixFunction.h
./unsupported/Eigen/src/MatrixFunctions/MatrixSquareRoot.h
./unsupported/Eigen/src/MatrixFunctions/MatrixLogarithm.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h
./unsupported/Eigen/src/MatrixFunctions/MatrixPower.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h
./unsupported/Eigen/src/MatrixFunctions/MatrixFunctionAtomic.h
./unsupported/Eigen/src/MoreVectorization/MathFunctions.h
./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h
./unsupported/Eigen/src/FFT/ei_fftw_impl.h ./unsupported/Eigen/src/FFT/ei_kissfft_impl.h
./unsupported/Eigen/src/Polynomials/PolynomialSolver.h ./unsupported/Eigen/src/Polynomials/PolynomialUtils.h
./unsupported/Eigen/src/NumericalDiff/NumericalDiff.h ./unsupported/Eigen/src/Skyline/SkylineMatrixBase.h
./unsupported/Eigen/src/Skyline/SkylineMatrixBase.h ./unsupported/Eigen/src/Skyline/SkylineMatrixUtil.h
./unsupported/Eigen/src/Skyline/SkylineUtil.h ./unsupported/Eigen/src/Skyline/SkylineInplaceLU.h
./unsupported/Eigen/src/Skyline/SkylineMatrix.h ./unsupported/Eigen/SparseExtra
./unsupported/Eigen/AdolcForward ./unsupported/Eigen/KroneckerProduct
./unsupported/Eigen/NonLinearOptimization ./unsupported/Eigen/BVH ./unsupported/Eigen/OpenGLSupport
./unsupported/Eigen/ArpackSupport ./unsupported/Eigen/AutoDiff ./unsupported/Eigen/Splines
./unsupported/Eigen/MPRealSupport ./unsupported/Eigen/MatrixFunctions
./unsupported/Eigen/MoreVectorization ./unsupported/Eigen/LevenbergMarquardt
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./unsupported/Eigen/NumericalDiff ./unsupported/Eigen/Skyline ./COPYING.README ./COPYING.README
./LICENSE ./LICENSE ./LICENSE ./Eigen/Eigen2Support ./Eigen/src/Eigen2Support/VectorBlock.h
./Eigen/src/Eigen2Support/Cwise.h ./Eigen/src/Eigen2Support/Minor.h
./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
./Eigen/src/Eigen2Support/Geometry/Rotation2D.h ./Eigen/src/Eigen2Support/Geometry/ParametrizedLine.h
./Eigen/src/Eigen2Support/Geometry/RotationBase.h ./Eigen/src/Eigen2Support/Geometry/Translation.h
./Eigen/src/Eigen2Support/Geometry/Scaling.h ./Eigen/src/Eigen2Support/Geometry/AngleAxis.h
./Eigen/src/Eigen2Support/Geometry/Transform.h ./Eigen/src/Eigen2Support/TriangularSolver.h
./Eigen/src/Eigen2Support/LU.h ./Eigen/src/Eigen2Support/QR.h ./Eigen/src/Eigen2Support/SVD.h
./Eigen/src/Eigen2Support/Meta.h ./Eigen/src/Eigen2Support/Block.h ./Eigen/src/Eigen2Support/Block.h
./Eigen/src/Eigen2Support/LeastSquares.h ./Eigen/src/Eigen2Support/CwiseOperators.h
./Eigen/src/Jacobi/Jacobi.h ./Eigen/src/misc/Kernel.h ./Eigen/src/misc/SparseSolve.h ./Eigen/src/misc/Kernel.h
./Eigen/src/misc/Image.h ./Eigen/src/SparseCore/SparseColEtree.h
./Eigen/src/SparseCore/SparseTranspose.h ./Eigen/src/SparseCore/SparseUtil.h
./Eigen/src/SparseCore/SparseCwiseBinaryOp.h ./Eigen/src/SparseCore/SparseDiagonalProduct.h
./Eigen/src/SparseCore/SparseProduct.h ./Eigen/src/SparseCore/SparseDot.h
./Eigen/src/SparseCore/SparseCwiseUnaryOp.h ./Eigen/src/SparseCore/SparseSparseProductWithPruning.h
./Eigen/src/SparseCore/SparseBlock.h ./Eigen/src/SparseCore/SparseDenseProduct.h
./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/SparseView.h ./Eigen/src/SparseCore/SparseFuzzy.h
./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
./Eigen/src/Eigenvalues/EigenSolver.h ./Eigen/src/Eigenvalues/HessenbergDecomposition.h
./Eigen/src/Eigenvalues/GeneralizedSelfAdjointEigenSolver.h ./Eigen/src/Eigenvalues/Tridiagonalization.h
./Eigen/src/Eigenvalues/SelfAdjointEigenSolver.h ./Eigen/src/Eigenvalues/MatrixBaseEigenvalues.h
./Eigen/src/SuperLUSupport/SuperLUSupport.h ./Eigen/src/StlSupport/StdDeque.h
./Eigen/src/StlSupport/StdVector.h ./Eigen/src/StlSupport/StdList.h ./Eigen/src/StlSupport/StdDeque.h
./Eigen/src/SparseQR/SparseQR.h ./Eigen/src/LU/Inverse.h ./Eigen/src/LU/arch/Inverse_SSE.h
./Eigen/src/LU/Determinant.h ./Eigen/src/LU/PartialPivLU.h ./Eigen/src/LU/FullPivLU.h
./Eigen/src/UmfPackSupport/UmfPackSupport.h ./Eigen/src/OrderingMethods/Ordering.h
./Eigen/src/OrderingMethods/Eigen_Colamd.h ./Eigen/src/QR/HouseholderQR.h
./Eigen/src/QR/ColPivHouseholderQR.h ./Eigen/src/QR/FullPivHouseholderQR.h
./Eigen/src/SVD/JacobiSVD.h ./Eigen/src/SVD/UpperBidiagonalization.h
./Eigen/src/Geometry/OrthoMethods.h ./Eigen/src/Geometry/AlignedBox.h
./Eigen/src/Geometry/Hyperplane.h ./Eigen/src/Geometry/Quaternion.h ./Eigen/src/Geometry/EulerAngles.h
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./Eigen/src/Geometry/Umeyama.h ./Eigen/src/Geometry/Homogeneous.h ./Eigen/src/Geometry/Translation.h
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./Eigen/src/plugins/BlockMethods.h ./Eigen/src/plugins/CommonCwiseUnaryOps.h
./Eigen/src/plugins/CommonCwiseBinaryOps.h ./Eigen/src/plugins/MatrixCwiseUnaryOps.h
./Eigen/src/plugins/MatrixCwiseBinaryOps.h ./Eigen/src/Householder/Householder.h
./Eigen/src/Householder/HouseholderSequence.h ./Eigen/src/Householder/BlockHouseholder.h
./Eigen/src/Core/VectorBlock.h ./Eigen/src/Core/Matrix.h ./Eigen/src/Core/Ref.h
./Eigen/src/Core/SelfAdjointView.h ./Eigen/src/Core/MathFunctions.h
./Eigen/src/Core/GlobalFunctions.h ./Eigen/src/Core/MapBase.h ./Eigen/src/Core/EigenBase.h
./Eigen/src/Core/GenericPacketMath.h ./Eigen/src/Core/NestByValue.h ./Eigen/src/Core/CwiseUnaryOps.h
./Eigen/src/Core/SolveTriangular.h ./Eigen/src/Core/Fuzzy.h ./Eigen/src/Core/Visitor.h
./Eigen/src/Core/Map.h ./Eigen/src/Core/NoAlias.h ./Eigen/src/Core/Diagonal.h
./Eigen/src/Core/StableNorm.h ./Eigen/src/Core/CoreIterators.h ./Eigen/src/Core/products/ParallelTileAccess.h
./Eigen/src/Core/products/SelfadjointMatrixVector.h
./Eigen/src/Core/products/GeneralMatrixMatrixTriangular.h
./Eigen/src/Core/products/TriangularSolverMatrix.h ./Eigen/src/Core/products/GeneralMatrixMatrix.h
./Eigen/src/Core/products/SelfadjointProduct.h ./Eigen/src/Core/products/CoeffBasedProduct.h
./Eigen/src/Core/products/TriangularMatrixVector.h ./Eigen/src/Core/products/SelfadjointMatrixVector.h
./Eigen/src/Core/products/TriangularSolverVector.h ./Eigen/src/Core/products/SelfadjointRank2Update.h
./Eigen/src/Core/products/GeneralBlockPanelKernel.h ./Eigen/src/Core/products/GeneralMatrixVector.h
./Eigen/src/Core/products/TriangularMatrixMatrix.h ./Eigen/src/Core/Reverse.h
./Eigen/src/Core/BooleanRedux.h ./Eigen/src/Core/Replicate.h ./Eigen/src/Core/arch/Altivec/Altivec.h
./Eigen/src/Core/arch/Altivec/Complex.h ./Eigen/src/Core/arch/SSE/PacketMath.h
./Eigen/src/Core/arch/SSE/Complex.h ./Eigen/src/Core/arch/SSE/MathFunctions.h
./Eigen/src/Core/arch/NEON/PacketMath.h ./Eigen/src/Core/arch/NEON/Complex.h
./Eigen/src/Core/arch/Default/Settings.h ./Eigen/src/Core/CwiseUnaryView.h ./Eigen/src/Core/Array.h
./Eigen/src/Core/ArrayWrapper.h ./Eigen/src/Core/Swap.h ./Eigen/src/Core/Transpositions.h

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./Eigen/src/Core/Random.h ./Eigen/src/Core/IO.h ./Eigen/src/Core/SelfCwiseBinaryOp.h
./Eigen/src/Core/VectorwiseOp.h ./Eigen/src/Core/Select.h ./Eigen/src/Core/ArrayBase.h
./Eigen/src/Core/DenseCoeffsBase.h ./Eigen/src/Core/DiagonalProduct.h ./Eigen/src/Core/Assign
./Eigen/src/Core/Redux.h ./Eigen/src/Core/ForceAlignedAccess.h
./Eigen/src/Core/BandMatrix.h ./Eigen/src/Core/PlainObjectBase.h ./Eigen/src/Core/DenseBase.h
./Eigen/src/Core/Flagged.h ./Eigen/src/Core/CwiseBinaryOp.h ./Eigen/src/Core/ProductBase.h
./Eigen/src/Core/TriangularMatrix.h ./Eigen/src/Core/Transpose.h ./Eigen/src/Core/DiagonalMat
./Eigen/src/Core/Dot.h ./Eigen/src/Core/Functors.h ./Eigen/src/Core/PermutationMatrix.h
./Eigen/src/Core/NumTraits.h ./Eigen/src/Core/MatrixBase.h ./Eigen/src/Core/DenseStorage.h
./Eigen/src/Core/util/Memory.h ./Eigen/src/Core/util/StaticAssert.h ./Eigen/src/Core/util/Blas
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./Eigen/src/Core/util/ForwardDeclarations.h ./Eigen/src/Core/util/Meta.h ./Eigen/src/Core/uti
./Eigen/src/Core/util/Constants.h ./Eigen/src/Core/CwiseNullaryOp.h ./Eigen/src/Core/Block.h
./Eigen/src/Core/GeneralProduct.h ./Eigen/src/Core/CommaInitializer.h ./Eigen/src/Core/Return
./Eigen/src/Core/Stride.h ./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
./Eigen/src/SparseLU/SparseLU_column_dfs.h ./Eigen/src/SparseLU/SparseLU_panel_dfs.h
./Eigen/src/SparseLU/SparseLU_relax_snode.h ./Eigen/src/SparseLU/SparseLU_panel_bmod.h
./Eigen/src/SparseLU/SparseLU_SupernodalMatrix.h ./Eigen/src/SparseLU/SparseLU_Utils.h
./Eigen/src/SparseLU/SparseLU_gemm_kernel.h ./Eigen/src/SparseLU/SparseLU_kernel_bmod.h
./Eigen/src/SparseLU/SparseLU_pivotL.h ./Eigen/src/SparseLU/SparseLU_Memory.h
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./Eigen/src/SparseLU/SparseLU_pruneL.h ./Eigen/src/IterativeLinearSolvers/IncompleteLUT.h
./Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h
./Eigen/src/IterativeLinearSolvers/IterativeSolverBase.h
./Eigen/src/IterativeLinearSolvers/ConjugateGradient.h ./Eigen/src/IterativeLinearSolvers/BiC
./Eigen/src/SparseCholesky/SimplicialCholesky.h ./Eigen/src/Cholesky/LDLT.h
./Eigen/src/Cholesky/LLT.h ./Eigen/src/CholmodSupport/CholmodSupport.h
./Eigen/src/PaStiXSupport/PaStiXSupport.h ./Eigen/src/MetisSupport/MetisSupport.h ./Eigen/Std
./Eigen/Core ./Eigen/SparseLU ./Eigen/StdList ./Eigen/StdDeque ./Eigen/SparseCholesky
./scripts/relicense.py ./scripts/relicense.py ./blas/BandTriangularSolver.h
./blas/PackedTriangularMatrixVector.h ./blas/complex_double.cpp ./blas/level2_real_impl.h
./blas/level1_cplx_impl.h ./blas/level1_impl.h ./blas/level1_real_impl.h ./blas/level3_impl.h
./blas/level2_cplx_impl.h ./blas/PackedSelfadjointProduct.h ./blas/Rank2Update.h ./blas/compl
./blas/PackedTriangularSolverVector.h ./blas/double.cpp ./blas/common.h ./blas/level2_impl.h
./blas/GeneralRank1Update.h Mozilla Public License Version 2.0
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GVR Keyboard

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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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Khronos reference front-end for GLSL and ESSL

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LevelDB: A Fast Persistent Key-Value Store

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libcxx-pretty-printers

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libprotobuf-mutator

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libsrtp

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libudev

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Oculus SDK for Windows

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One Euro Filter

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OpenVR SDK

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opus

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OTS (OpenType Sanitizer)

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Private Join and Compute subset

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Protocol Buffers

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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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Snappy: A fast compressor/decompressor

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tcmalloc

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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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WebM container parser and writer.

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Weston - reference Wayland compositor

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Windows Template Library (WTL)

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woff2

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Wuffs (Wrangling Untrusted File Formats Safely)

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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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    USA.
***/

#ifdef HAVE_CONFIG_H
#include <config.h>

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

```



```

=====
#endif fooclienthfoo
#define fooclienthfoo

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```
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```

```
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```

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```
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```

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```
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```

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

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```
=====
binutils-2.38: COPYING
binutils-2.38: include/COPYING
gcc-runtime-11.4.0: COPYING
gdb-11.2: COPYING
libgcc-11.4.0: COPYING
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=====
```

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```

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

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```
=====
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gdb-11.2: COPYING.LIB
=====
```

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

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.

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- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license

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

That's all there is to it!

```
=====
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-11.4.0: 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-11.4.0: 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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```
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```

```
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```

```
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```

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```
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```

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```
=====
binutils-2.38: COPYING3.LIB
gcc-runtime-11.4.0: COPYING3.LIB
gdb-11.2: COPYING3.LIB
gmp-6.2.1: COPYING.LESSERv3
libgcc-11.4.0: COPYING3.LIB
libunistring-1.0: COPYING.LIB
nettle-3.7.3: COPYING.LESSERv3
=====
```

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```
=====
binutils-2.38: libiberty/COPYING.LIB
=====
```

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=====

loginrec.c
loginrec.h

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

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

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

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

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- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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```
<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
version 2 of the License, or (at your option) any later version.
```

```
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```

```
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```

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```
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!

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

```
/*
 * ext2fs.h --- ext2fs
 *
 * Copyright (C) 1993, 1994, 1995, 1996 Theodore Ts'o.
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %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%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%

=====
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
 *
 * Copyright (C) 1996, 1997, 1998 Theodore Ts'o.
 *
 * %Begin-Header%
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 * USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
 * DAMAGE.
 * %End-Header%

=====
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
util-linux-libuuid-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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 *
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 * advertising or publicity pertaining to distribution of the software
 * without specific, written prior permission. M.I.T. and the
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 * this software for any purpose. It is provided "as is" without
 * express or implied warranty.
```

```
=====
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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 * M.I.T. S.I.P.B. make no representations about the suitability of
 * this software for any purpose. It is provided "as is" without
 * express or implied warranty.
 *
 * This quote is just too good to not pass on:
 *
 * "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.

   This file is free software; you can redistribute it and/or modify
   it under the terms of either

   * the GNU Lesser General Public License as published by the Free
     Software Foundation; either version 3 of the License, or (at
     your option) any later version

   or

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   or both in parallel, as here.

   elfutils is distributed in the hope that it will be useful, but
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```

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```
=====
encodings-1.0.6: COPYING
=====
```

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If you want to add a copyright statement to an encoding file, you need your brain examined.

Juliusz Chroboczek

```
=====
e-wm-16-1.0.13: COPYING
=====
```

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```
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```

```
=====
```

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```

```
=====
```

```
extrace-0.9: LICENSE
```

```
=====
```

```
/* pwait - wait for processes to terminate
 * 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 */
/*-
 * Copyright (c) 2004-2009, Jilles Tjoelker
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```

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*/
/* 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
*
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*
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*/
```

```

=====
flashrom-1.2: COPYING
kmod-29: tools/COPYING
libftdi-1.4: COPYING.GPL
pciutils-3.7.0: COPYING
systemd-250.5: LICENSE.GPL2
=====

```

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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/fcft2type.c, 1-45
=====
```

```
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 * fontconfig/src/fcft2type.c
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*/

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

/*

```
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
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*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* 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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```

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2006-Jan-27

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```
=====
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=====
```

GCC RUNTIME LIBRARY EXCEPTION

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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```

```

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glib-2.0-2.72.3: docs/reference/COPYING
=====

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glibc-2.35: LICENSES

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LICENSING
=====
```

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gnutls-3.7.4: doc/COPYING
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=====
krb5-1.17.2: NOTICE
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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
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
```

```

lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
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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```

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



```
libgcrypt-1.9.4: LICENSES
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=====
```

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```

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

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```

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- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

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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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```
=====
libgpg-error-1.44: src/gpg-error.h.in, 2-18
=====
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```
=====
libgpg-error-1.44: src/init.c, 2-17
=====
```

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```
=====
libidn2-2.3.2: src/idn2.c, 1-16
=====
```

```
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```

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```
*/
```

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

```
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```

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

```
/*
 * cdjpeg.h
 *
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 * 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
=====
```

```
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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
=====
```

```
/*
 * djpeg.c
```

```

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

/*
  Unix SMB/CIFS implementation.

  Python interface to ldb.

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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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-----
```

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

```
THE BASIC LIBRARY FUNCTIONS
-----
```

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

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Cambridge, England.

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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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End

```
=====
libpcre2-10.40: LICENCE
=====
```

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THE BASIC LIBRARY FUNCTIONS

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```
=====
libsm-1.2.3: COPYING
=====
```

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=====
```

```
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 * OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */
```

```
=====
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
=====
```

/*

Unix SMB/CIFS implementation.
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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```

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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

    Copyright (C) Andrew Tridgell 1999-2004

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*/

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

/*
    Unix SMB/CIFS implementation.

    generalised event loop handling

    Copyright (C) Andrew Tridgell 2005
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```



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```

```
*/
```

```

=====
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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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 */

```

```

=====
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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```

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```
@end ignore
@end ifinfo
```

```
@titlepage
@title GNU libunistring, version @value{VERSION}
@subtitle updated @value{UPDATED}
@author Bruno Haible
```

```
@ifnohtml
@page
@vskip 0pt plus 1filll
@c @insertcopying
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```

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@end ifnohtml

@end titlepage

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@end ifnottex

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```

* Locale encodings::          What is a locale encoding?
* In-memory representation::  How to represent strings in memory?
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```

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```

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* Elementary string functions::
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```

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```

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```

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* Searching for a character in a NUL terminated Unicode string::
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```

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```

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```

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```
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unigbrk.h

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* GNU LGPL::         GNU Lesser General Public License
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@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}
@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 glibc
@url{https://www.gnu.org/software/glibc/}.

@itemize @bullet

@item

glibc 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

glibc 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

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

@item

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

@item

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

@item

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

@item

glibc 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 @code{ulc_casemp} 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 @sc{LETTER DZ WITH CARON} comes in three forms:

@sc{LATIN CAPITAL LETTER DZ WITH CARON} (DZ),

@sc{LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON} (Dz),

@sc{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 @sc{LATIN SMALL LETTER SHARP S}, when uppercased, becomes @samp{SS}.

```
@item
It assumes that there is 1:1 mapping between uppercase and lowercase forms.
This is not true for the Greek sigma: @sc{GREEK CAPITAL LETTER SIGMA} is
the uppercase of both @sc{GREEK SMALL LETTER SIGMA} and
@sc{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 @code{samp{ulc}_} operate on C strings in locale encoding.

All functions with prefix @code{samp{u8}_} operate on UTF-8 strings.

All functions with prefix @code{samp{u16}_} operate on UTF-16 strings.

All functions with prefix @code{samp{u32}_} operate on UTF-32 strings.

For every function with prefix @code{samp{u8}_}, operating on UTF-8 strings, there is also a corresponding function with prefix @code{samp{u16}_}, operating on UTF-16 strings, and a corresponding function with prefix @code{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 @code{@var{n}} denotes the three concrete declarations with @code{@var{n} = 8}, @code{@var{n} = 16}, @code{@var{n} = 32}.

All parameters starting with @code{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 untypes.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 unicase.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
@code{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
@code{HAVE_LIBUNISTRING} to 1. Otherwise, it sets and AC_SUBSTs
@code{HAVE_LIBUNISTRING=no} and @code{LIBUNISTRING} and @code{LTLIBUNISTRING}
to empty.
```

The complexities that @code{gl_LIBUNISTRING} deals with are the following:

```
@itemize @bullet
@item
On some operating systems, in some configurations, libunistring depends
on @code{libiconv}, and the options for linking with libiconv must be
mentioned explicitly on the link command line.
```

```
@item
GNU @code{libunistring}, if installed, is not necessarily already in the
search path (@code{CPPFLAGS} for the include file search path,
@code{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}, 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/}.

@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
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@itemize @bullet
@item @minus{}
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(at your option) any later version, or
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You can find the GNU GPL version 2 at
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```

```

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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:

=====
libunwind-1.6.2: COPYING
=====

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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:

```
http://www.hpl.hp.com/research/linux/atomic_ops/LICENSING.txt
http://www.hpl.hp.com/personal/Hans_Boehm/gc/gc_source/
```

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

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


MIT/X11 (BSD like) license apply to:

```
compiler.h
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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```

```

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*
* IBM's contributions to this file may be relicensed under LGPLv2 or later.
*/

```

```

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

```

```

/*
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* Copyright (c) 1999-2004 Hewlett-Packard Development Company, L.P.
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* 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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```

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```

```
<signature of Ty Coon>, 1 April 1990
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```
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```

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

```

```
***
```

```
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/* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

intended for inclusion in X11 public releases. */

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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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libxtst-1.2.3: src/XTest.c, 2-32

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lpkit-udev-common-1.0: sources/poky/meta/files/common-licenses/MIT
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lsof-4.94.0: 00README, 645-679
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lzo-2.10: src/lzo_init.c, 5-25
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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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=====
nspr-4.29: configure.in, 3-6
=====

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nspr-4.29: Makefile.in, 4-38
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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

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php-8.1.16: LICENSE
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pixman-0.40.0: pixman/pixman-matrix.c, 1-21
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rsmic-git: rsmic.c, 1-1
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```

```

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

```

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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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sysstat-12.4.5: COPYING
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=====
x11vnc-0.9.16+git: src/x11vnc.h, 1-31
=====
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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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```
=====
xterm-372: xterm.h, 3-31
=====
```

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

```
/* Getopt for GNU.
```

```
NOTE: getopt is now part of the C library, so if you don't know what
```

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#ifndef _LIBC
```

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```
=====
zlib-1.2.11: zlib.h, 6-23
=====
```

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