

# R&S® SMM100A

## Vector Signal Generator

### Open Source Acknowledgment



1440800200  
Version 10.00

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- R&S®SMM100A

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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.

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

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

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babel-loader	8.2.3	MIT License
babel-plugin-dynamic-import-node	2.3.3	MIT License
babel-plugin-istanbul	6.1.1	BSD 3-clause "New" or "Revised" License
babel-plugin-jest-hoist	27.5.1	MIT License
babel-plugin-polyfill-corejs2	0.3.1	MIT License
babel-plugin-polyfill-corejs3	0.5.2	MIT License
babel-plugin-polyfill-regenerator	0.3.1	MIT License
babel-preset-current-node-syntax	1.0.1	MIT License
babel-preset-jest	27.5.1	MIT License
babel/code-frame	7.18.6	MIT License
babel/compat-data	7.17.7	MIT License
babel/core	7.17.8	MIT License
babel/generator	7.21.1	MIT License
babel/helper-annotate-as-pure	7.16.7	MIT License
babel/helper-annotate-as-pure	7.18.6	MIT License
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babel/helper-explode-assignable-expression	7.16.7	<a href="#">MIT License</a>
babel/helper-function-name	7.21.0	<a href="#">MIT License</a>
babel/helper-hoist-variables	7.18.6	<a href="#">MIT License</a>
babel/helper-member-expression-to-functions	7.21.0	<a href="#">MIT License</a>
babel/helper-module-imports	7.16.7	<a href="#">MIT License</a>
babel/helper-module-transforms	7.17.7	<a href="#">MIT License</a>
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babel/plugin-bugfix-safari-id-destructuring-collision-in-function-expression	7.16.7	<a href="#">MIT License</a>
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babel/plugin-syntax-dynamic-import	7.8.3	<a href="#">MIT License</a>
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babel/plugin-syntax-import-meta	7.10.4	<a href="#">MIT License</a>
babel/plugin-syntax-json-strings	7.8.3	<a href="#">MIT License</a>
babel/plugin-syntax-logical-assignment-operators	7.10.4	<a href="#">MIT License</a>
babel/plugin-syntax-nullish-coalescing-operator	7.8.3	<a href="#">MIT License</a>
babel/plugin-syntax-numeric-separator	7.10.4	<a href="#">MIT License</a>

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babel/plugin-syntax-optional-catch-binding	7.8.3	MIT License
babel/plugin-syntax-optional-chaining	7.8.3	MIT License
babel/plugin-syntax-private-property-in-object	7.14.5	MIT License
babel/plugin-syntax-top-level-await	7.14.5	MIT License
babel/plugin-syntax-typescript	7.20.0	MIT License
babel/plugin-transform-arrow-functions	7.16.7	MIT License
babel/plugin-transform-async-to-generator	7.16.8	MIT License
babel/plugin-transform-block-scoped-functions	7.16.7	MIT License
babel/plugin-transform-block-scoping	7.16.7	MIT License
babel/plugin-transform-classes	7.16.7	MIT License
babel/plugin-transform-computed-properties	7.16.7	MIT License
babel/plugin-transform-destructuring	7.17.7	MIT License
babel/plugin-transform-dotall-regex	7.16.7	MIT License
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babel/plugin-transform-member-expression-literals	7.16.7	MIT License
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babel/plugin-transform-modules-systemjs	7.17.8	MIT License
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babel/plugin-transform-parameters	7.16.7	MIT License
babel/plugin-transform-property-literals	7.16.7	MIT License
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-spread	7.16.7	MIT License
babel/plugin-transform-sticky-regex	7.16.7	MIT License
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
big.js	5.2.2	MIT License
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
bluebird	3.7.2	MIT License

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Boost	1.64.0	<a href="#">Boost Software License 1.0</a>
boost	1.78.0	<a href="#">Boost Software License 1.0</a> AND MIT License AND Python License 2.0
brace-expansion	1.1.11	<a href="#">MIT License</a>
brace-expansion	2.0.1	<a href="#">MIT License</a>
braces	3.0.2	<a href="#">MIT License</a>
brotli	1.0.9	MIT License
browser-process-hrtime	1.0.0	<a href="#">BSD 2-clause "Simplified" License</a>
browserslist	4.20.2	<a href="#">MIT License</a>
bser	2.1.1	<a href="#">Apache License 2.0</a>
buffer	5.7.1	<a href="#">MIT License</a>
buffer-crc32	0.2.13	<a href="#">MIT License</a>
buffer-from	1.1.2	<a href="#">MIT License</a>
builtins	1.0.3	<a href="#">MIT License</a>
busybox	1.35.0	GPL-2.0-only License AND bzip2 License
bzip2	1.0.8	<a href="#">bzip2 and libbzip2 License</a>
bzip2	1.0.8	bzip2 License
cacache	15.3.0	<a href="#">ISC License</a>
cacache	16.0.3	<a href="#">ISC License</a>
cachedir	2.3.0	<a href="#">MIT License</a>
call-bind	1.0.2	<a href="#">MIT License</a>
callsites	3.1.0	<a href="#">MIT License</a>
camelcase	5.3.1	<a href="#">MIT License</a>
camelcase	6.3.0	<a href="#">MIT License</a>
caniuse-lite	1.0.30001320	<a href="#">Creative Commons Attribution 4.0</a>
caseless	0.12.0	<a href="#">Apache License 2.0</a>
ccid	1.4.33	LGPL-2.1-or-later License
chalk	2.4.2	<a href="#">MIT License</a>
chalk	4.1.0	<a href="#">MIT License</a>
chalk	4.1.2	<a href="#">MIT License</a>
char-regex	1.0.2	<a href="#">MIT License</a>

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chardet	0.7.0	<a href="#">MIT License</a>
check-more-types	2.24.0	<a href="#">MIT License</a>
chokidar	3.5.3	<a href="#">MIT License</a>
chownr	2.0.0	<a href="#">ISC License</a>
chrome-trace-event	1.0.3	<a href="#">MIT License</a>
ci-info	3.3.0	<a href="#">MIT License</a>
cifs-utils	6.14	GPL-3.0-only License AND LGPL-3.0-only License
cjs-module-lexer	1.2.2	<a href="#">MIT License</a>
classlist.js	1.1.20150312	Public Domain
clean-stack	2.2.0	<a href="#">MIT License</a>
cli-cursor	3.1.0	<a href="#">MIT License</a>
cli-spinners	2.6.1	<a href="#">MIT License</a>
cli-table3	0.6.3	<a href="#">MIT License</a>
cli-truncate	2.1.0	<a href="#">MIT License</a>
cli-width	3.0.0	<a href="#">ISC License</a>
cliui	6.0.0	<a href="#">ISC License</a>
clone	1.0.4	<a href="#">MIT License</a>
clone-deep	4.0.1	<a href="#">MIT License</a>
CMSIS	5.7.0	<a href="#">Apache License 2.0</a>
CMSIS Device	2.6.4	<a href="#">BSD 3-clause "New" or "Revised" License</a>
co	4.6.0	<a href="#">MIT License</a>
Code from the FreeBSD Project	unspecific	<a href="#">BSD 3-clause "New" or "Revised" License</a>
Code from the LLVM Compiler Infrastructure	unspecific	<a href="#">The University of Illinois - NCSA Open Source License</a>
collect-v8-coverage	1.0.1	<a href="#">MIT License</a>
color-convert	1.9.3	<a href="#">MIT License</a>
color-convert	2.0.1	<a href="#">MIT License</a>
color-name	1.1.3	<a href="#">MIT License</a>
color-name	1.1.4	<a href="#">MIT License</a>
color-support	1.1.3	<a href="#">ISC License</a>



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colorette	2.0.16	<a href="#">MIT License</a>
colors/colors	1.5.0	<a href="#">MIT License</a>
combined-stream	1.0.8	<a href="#">MIT License</a>
commander	2.20.3	<a href="#">MIT License</a>
commander	5.1.0	<a href="#">MIT License</a>
common-tags	1.8.2	<a href="#">MIT License</a>
comondir	1.0.1	<a href="#">MIT License</a>
concat-map	0.0.1	<a href="#">MIT License</a>
console-control-strings	1.1.0	<a href="#">ISC License</a>
convert-source-map	1.8.0	<a href="#">MIT License</a>
core-js	3.21.1	<a href="#">MIT License</a>
core-js-compat	3.21.1	<a href="#">MIT License</a>
core-util-is	1.0.2	<a href="#">MIT License</a>
cosmiconfig	6.0.0	<a href="#">MIT License</a>
cpprest	2.10.18	<a href="#">MIT License</a>
cppzmq	4.7.1	<a href="#">MIT License</a>
create-require	1.1.1	<a href="#">MIT License</a>
cross-spawn	7.0.3	<a href="#">MIT License</a>
cssom	0.3.8	<a href="#">MIT License</a>
cssom	0.4.4	<a href="#">MIT License</a>
cssstyle	2.3.0	<a href="#">MIT License</a>
curl	7.73.0.0	<a href="#">curl License</a>
curl	7.82.0.0	<a href="#">curl License</a>
curl	7.82.0	<a href="#">curl License</a>
Curl	7.87.0	<a href="#">curl License</a>
cypress	12.7.0	<a href="#">MIT License</a>
cypress/request	2.88.11	<a href="#">Apache License 2.0</a>
cypress/schematic	2.5.0	<a href="#">MIT License</a>
cypress/webpack-preprocessor	5.17.0	<a href="#">MIT License</a>
cypress/xvfb	1.2.4	<a href="#">MIT License</a>

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dashdash	1.14.1	MIT License
data-urls	2.0.0	MIT License
dayjs	1.11.7	MIT License
dbus	1.14.6	Academic Free License v2.1 OR GPL-2.0-or-later License
DCPLib	0.2	BSD 3-clause "New" or "Revised" License
debug	3.2.7	MIT License
debug	4.3.3	MIT License
debug	4.3.4	MIT License
decamelize	1.2.0	MIT License
decimal.js	10.3.1	MIT License
dedent	0.7.0	MIT License
deep-is	0.1.4	MIT License
deepmerge	4.2.2	MIT License
defaults	1.0.3	MIT License
define-lazy-prop	2.0.0	MIT License
define-properties	1.1.3	MIT License
delayed-stream	1.0.0	MIT License
delegates	1.0.0	MIT License
depd	1.1.2	MIT License
detect-newline	3.1.0	MIT License
dfu-programmer	0.7.1	GPL-2.0-only License
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domexception	2.0.1	MIT License
dotenv	10.0.0	BSD 2-clause "Simplified" License
double-conversion (V8 project)	unspecific	BSD 3-clause "New" or "Revised" License

Package	Version	License
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e2fsprogs	1.46.5	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
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Eigen	3.4.0	<a href="#">Mozilla Public License 2.0</a>
ejs	3.1.8	<a href="#">Apache License 2.0</a>
electron-to-chromium	1.4.92	<a href="#">ISC License</a>
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
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encoding	0.1.13	<a href="#">MIT License</a>
encodings	1.0.6	Public Domain
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enhanced-resolve	5.9.2	<a href="#">MIT License</a>
enquirer	2.3.6	<a href="#">MIT License</a>
env-paths	2.2.1	<a href="#">MIT License</a>
err-code	2.0.3	<a href="#">MIT License</a>
error-ex	1.3.2	<a href="#">MIT License</a>
es-module-lexer	0.9.3	<a href="#">MIT License</a>
escalade	3.1.1	<a href="#">MIT License</a>
escape-string-regexp	1.0.5	<a href="#">MIT License</a>

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

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fast-deep-equal	3.1.3	<a href="#">MIT License</a>
fast-glob	3.2.7	<a href="#">MIT License</a>
fast-json-stable-stringify	2.1.0	<a href="#">MIT License</a>
fast-levenshtein	2.0.6	<a href="#">MIT License</a>
fastq	1.13.0	<a href="#">ISC License</a>
fb-watchman	2.0.1	<a href="#">Apache License 2.0</a>
fd-slicer	1.1.0	<a href="#">MIT License</a>
figures	3.2.0	<a href="#">MIT License</a>
file-entry-cache	6.0.1	<a href="#">MIT License</a>
file-saver	2.0.5	<a href="#">MIT License</a>
filelist	1.0.4	<a href="#">Apache License 2.0</a>
fill-range	7.0.1	<a href="#">MIT License</a>
find-cache-dir	3.3.2	<a href="#">MIT License</a>
find-up	4.1.0	<a href="#">MIT License</a>
flashrom	1.2	<a href="#">GPL-2.0-or-later License</a>
flat	5.0.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
flat-cache	3.0.4	<a href="#">MIT License</a>
flatbuffers	1.12.0	<a href="#">Apache License 2.0</a>
flatted	3.2.5	<a href="#">ISC License</a>
fmt	8.1.1	<a href="#">MIT License with optional exception</a>
focus-visible	5.2.0	<a href="#">W3C Software Notice and License (2002-12-31)</a>
font-alias	1.0.4	<a href="#">MIT License</a>
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	<a href="#">Apache License 2.0</a>
fork-ts-checker-webpack-plugin	6.2.10	<a href="#">MIT License</a>
form-data	2.3.3	<a href="#">MIT License</a>
form-data	3.0.1	<a href="#">MIT License</a>

Package	Version	License
formfactor	0.0	MIT License
FreeRTOS	10.0.1	<a href="#">MIT License</a>
FreeRTOS	10.5.0	<a href="#">MIT License</a>
freetype	2.11.1	Freetype Project License OR GPL-2.0-or-later License
fs-extra	9.1.0	<a href="#">MIT License</a>
fs-minipass	2.1.0	<a href="#">ISC License</a>
fs-monkey	1.0.3	<a href="#">The Unlicense</a>
fs.realpath	1.0.0	<a href="#">ISC License</a>
function-bind	1.1.1	<a href="#">MIT License</a>
functional-red-black-tree	1.0.1	<a href="#">MIT License</a>
fuse	2.9.9	GPL-2.0-only License AND LGPL-2.0-only License
gar/promisify	1.1.3	<a href="#">MIT License</a>
gauge	4.0.3	<a href="#">ISC License</a>
gcc-runtime	11.3.0	<a href="#">GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1</a>
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	<a href="#">MIT License</a>
get-caller-file	2.0.5	<a href="#">ISC License</a>
get-intrinsic	1.1.1	<a href="#">MIT License</a>
get-package-type	0.1.0	<a href="#">MIT License</a>
get-stream	5.2.0	<a href="#">MIT License</a>
get-stream	6.0.1	<a href="#">MIT License</a>
getos	3.2.1	<a href="#">MIT License</a>
getpass	0.1.7	<a href="#">MIT License</a>
glib-2.0	2.72.3	LGPL-2.1-or-later License AND BSD 3-Clause License AND Public Domain
glibc	2.35	GPL-2.0-only License AND LGPL-2.1-only License

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glob	7.1.4	<a href="#">ISC License</a>
glob	7.2.0	<a href="#">ISC License</a>
glob-parent	5.1.2	<a href="#">ISC License</a>
glob-parent	6.0.2	<a href="#">ISC License</a>
glob-to-regexp	0.4.1	<a href="#">BSD 2-clause "Simplified" License</a>
global-dirs	3.0.1	<a href="#">MIT License</a>
globals	11.12.0	<a href="#">MIT License</a>
globals	13.13.0	<a href="#">MIT License</a>
gmp	6.2.1	GPL-2.0-or-later License OR LGPL-3.0-or-later License
gnutils	3.7.4	GPL-3.0-or-later License AND LGPL-2.1-or-later License
Google commandline flags module for C++	2.2.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
Google Protobuf protocol buffers library	2.6.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
Google Protobuf protocol buffers library	3.17.1 & 3.19.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
google/flatbuffers	Github commit 23bb57401c6ac aa6f9e983e6eb7 a687527b68af6	<a href="#">Apache License 2.0</a>
googlebenchmark	1.6.1	<a href="#">Apache License 2.0</a>
googletest	1.13.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
gperftools	2.9.1	<a href="#">BSD 3-Clause License</a>
graceful-fs	4.2.9	<a href="#">ISC License</a>
Grafana	9.2.6	<a href="#">GNU Affero General Public License v3.0</a>
grub	2.04+2.06~rc1	<a href="#">GPL-3.0-only License</a>
grub	2.06	<a href="#">GPL-3.0-only License</a>
harmony-reflect	1.6.2	(( <a href="#">Apache-2.0</a> OR <a href="#">Mozilla Public License Version 1.1</a> )
has	1.0.3	<a href="#">MIT License</a>
has-flag	3.0.0	<a href="#">MIT License</a>
has-flag	4.0.0	<a href="#">MIT License</a>
has-symbols	1.0.3	<a href="#">MIT License</a>

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has-unicode	2.0.1	<a href="#">ISC License</a>
haveged	1.9.18	GPL-3.0-only License
hosted-git-info	4.1.0	<a href="#">ISC License</a>
html-encoding-sniffer	2.0.1	<a href="#">MIT License</a>
html-escaper	2.0.2	<a href="#">MIT License</a>
htop	3.1.2	GPL-2.0-only License
http-cache-semantics	4.1.0	<a href="#">BSD 2-clause "Simplified" License</a>
http-proxy-agent	4.0.1	<a href="#">MIT License</a>
http-proxy-agent	5.0.0	<a href="#">MIT License</a>
http-signature	1.3.6	<a href="#">MIT License</a>
https-proxy-agent	5.0.0	<a href="#">MIT License</a>
human-signals	1.1.1	<a href="#">Apache License 2.0</a>
human-signals	2.1.0	<a href="#">Apache License 2.0</a>
humanize-ms	1.2.1	<a href="#">MIT License</a>
humanwhocodes/config-array	0.9.5	<a href="#">Apache License 2.0</a>
humanwhocodes/object-schema	1.2.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
iconv-lite	0.4.24	<a href="#">MIT License</a>
iconv-lite	0.6.3	<a href="#">MIT License</a>
icu	70.1	ICU License
identity-obj-proxy	3.0.0	<a href="#">MIT License</a>
ieee754	1.2.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
ifplugd	0.28	GPL-2.0-only License
ignore	5.2.0	<a href="#">MIT License</a>
ignore-walk	4.0.1	<a href="#">ISC License</a>
imlib2	1.7.1	Imlib2 License
import-fresh	3.3.0	<a href="#">MIT License</a>
imurmurhash	0.1.4	<a href="#">MIT License</a>
indent-string	4.0.0	<a href="#">MIT License</a>
infer-owner	1.0.4	<a href="#">ISC License</a>
inflight	1.0.6	<a href="#">ISC License</a>



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inherits	2.0.4	<a href="#">ISC License</a>
ini	2.0.0	<a href="#">ISC License</a>
inquirer	8.2.0	<a href="#">MIT License</a>
ip	1.1.5	<a href="#">MIT License</a>
iptables	1.8.7	<a href="#">GPL-2.0-or-later License</a>
is-arrayish	0.2.1	<a href="#">MIT License</a>
is-binary-path	2.1.0	<a href="#">MIT License</a>
is-ci	3.0.1	<a href="#">MIT License</a>
is-core-module	2.8.1	<a href="#">MIT License</a>
is-docker	2.2.1	<a href="#">MIT License</a>
is-extglob	2.1.1	<a href="#">MIT License</a>
is-fullwidth-code-point	3.0.0	<a href="#">MIT License</a>
is-generator-fn	2.1.0	<a href="#">MIT License</a>
is-glob	4.0.3	<a href="#">MIT License</a>
is-installed-globally	0.4.0	<a href="#">MIT License</a>
is-interactive	1.0.0	<a href="#">MIT License</a>
is-lambda	1.0.1	<a href="#">MIT License</a>
is-number	7.0.0	<a href="#">MIT License</a>
is-path-inside	3.0.3	<a href="#">MIT License</a>
is-plain-object	2.0.4	<a href="#">MIT License</a>
is-potential-custom-element-name	1.0.1	<a href="#">MIT License</a>
is-stream	2.0.1	<a href="#">MIT License</a>
is-typedarray	1.0.0	<a href="#">MIT License</a>
is-unicode-supported	0.1.0	<a href="#">MIT License</a>
is-wsl	2.2.0	<a href="#">MIT License</a>
isexe	2.0.0	<a href="#">ISC License</a>
isobject	3.0.1	<a href="#">MIT License</a>
isstream	0.1.2	<a href="#">MIT License</a>
istanbul-lib-coverage	3.2.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>

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istanbul-lib-instrument	4.0.3	<a href="#">BSD 3-clause "New" or "Revised" License</a>
istanbul-lib-instrument	5.1.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
istanbul-lib-report	3.0.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
istanbul-lib-source-maps	4.0.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
istanbul-reports	3.1.4	<a href="#">BSD 3-clause "New" or "Revised" License</a>
istanbuljs/load-nyc-config	1.1.0	<a href="#">ISC License</a>
istanbuljs/schema	0.1.3	<a href="#">MIT License</a>
jake	10.8.5	<a href="#">Apache License 2.0</a>
jansson	2.13.1	<a href="#">MIT License</a>
jasmine-marbles	0.8.4	<a href="#">MIT License</a>
jbig2dec	0.17	<a href="#">AGPL-3.0-or-later License</a>
jest-circus	27.5.1	<a href="#">MIT License</a>
jest-config	27.2.2	<a href="#">MIT License</a>
jest-diff	27.5.1	<a href="#">MIT License</a>
jest-docblock	27.5.1	<a href="#">MIT License</a>
jest-each	27.5.1	<a href="#">MIT License</a>
jest-environment-jsdom	27.5.1	<a href="#">MIT License</a>
jest-environment-node	27.5.1	<a href="#">MIT License</a>
jest-get-type	27.5.1	<a href="#">MIT License</a>
jest-haste-map	27.5.1	<a href="#">MIT License</a>
jest-jasmine2	27.5.1	<a href="#">MIT License</a>
jest-leak-detector	27.5.1	<a href="#">MIT License</a>
jest-matcher-utils	27.5.1	<a href="#">MIT License</a>
jest-message-util	27.5.1	<a href="#">MIT License</a>
jest-mock	27.5.1	<a href="#">MIT License</a>
jest-pnp-resolver	1.2.2	<a href="#">MIT License</a>
jest-regex-util	27.5.1	<a href="#">MIT License</a>
jest-resolve	27.2.2	<a href="#">MIT License</a>
jest-resolve	27.5.1	<a href="#">MIT License</a>

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jest-runner	27.5.1	MIT License
jest-runtime	27.5.1	MIT License
jest-serializer	27.5.1	MIT License
jest-snapshot	27.5.1	MIT License
jest-util	27.2.0	MIT License
jest-util	27.5.1	MIT License
jest-validate	27.5.1	MIT License
jest-worker	27.5.1	MIT License
jest/console	27.5.1	MIT License
jest/environment	27.5.1	MIT License
jest/fake-timers	27.5.1	MIT License
jest/globals	27.5.1	MIT License
jest/reporters	27.2.2	MIT License
jest/source-map	27.5.1	MIT License
jest/test-result	27.2.2	MIT License
jest/test-result	27.5.1	MIT License
jest/test-sequencer	27.5.1	MIT License
jest/transform	27.5.1	MIT License
jest/types	27.5.1	MIT License
jrldgewell/gen-mapping	0.3.2	MIT License
jrldgewell/resolve-uri	3.1.0	MIT License
jrldgewell/set-array	1.1.2	MIT License
jrldgewell/source-map-codec	1.4.14	MIT License
jrldgewell/trace-mapping	0.3.17	MIT License
js-tokens	4.0.0	MIT License
js-yaml	3.14.1	MIT License
js-yaml	4.1.0	MIT License
jsbn	0.1.1	MIT License
jsdom	16.7.0	MIT License
jsesc	0.5.0	MIT License

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jsesc	2.5.2	MIT License
json-parse-better-errors	1.0.2	MIT License
json-parse-even-better-errors	2.3.1	MIT License
json-schema	0.4.0	((AFL-2.1 OR BSD 3-clause "New" or "Revised" License)
json-schema-traverse	0.4.1	MIT License
json-schema-traverse	1.0.0	MIT License
json-stable-stringify-without-jsonify	1.0.1	MIT License
json-stringify-safe	5.0.1	ISC License
json5	1.0.1	MIT License
json5	2.2.3	MIT License
jsonc-parser	3.0.0	MIT License
jsonfile	6.1.0	MIT License
jsonparse	1.3.1	MIT License
jsprim	2.0.2	MIT License
kind-of	6.0.3	MIT License
kissfft	1.0	BSD 3-clause "New" or "Revised" License
kmod	29	GPL-2.0-or-later License AND LGPL-2.1-or-later License
krb5	1.17.2	MIT License
lazy-ass	1.6.0	MIT License
lcms	2.13.1	MIT License
leven	3.1.0	MIT License
levn	0.3.0	MIT License
levn	0.4.1	MIT License
libarchive	3.6.2	BSD 2-Clause License
libcap	2.66	BSD 3-Clause License OR GPL-2.0-only License
libdaemon	0.14	LGPL-2.1-or-later License
libdrm	2.4.110	MIT License

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libedit	20210910-3.1	BSD 3-Clause License
libepoxy	1.5.10	MIT License
libev	4.33	BSD 2-Clause License OR GPL-2.0-or-later License
libevdev	1.12.1	MIT License
libevent	2.1.12	BSD 3-Clause License AND MIT License
libfdt	0.20	<a href="#">GNU General Public License v1.0</a>
libffi	3.4.4	MIT License
libfontenc	1.1.4	MIT License
libftdi	1.4	LGPL-2.1-only License AND GPL-2.0-only License
libgcc	11.3.0	<a href="#">GNU General Public License v3.0</a> WITH <a href="#">GCC Runtime Library exception 3.1</a> AND GPL-3.0-only License
libgcrypt	1.9.4	GPL-2.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
libglu	9.0.2	MIT License
libgpg-error	1.44	GPL-2.0-or-later License AND LGPL-2.1-or-later License
libice	1.0.10	MIT License
libidn2	2.3.2	(( <a href="#">IGPL-2.0-or-later License</a> OR <a href="#">LGPL-3.0-only License</a> )) AND <a href="#">GPL-3.0-or-later License</a> AND <a href="#">Unicode Data Files and Software License (2016)</a>
libinput	1.19.4	MIT License
libjpeg-turbo	2.1.5.1	BSD 3-Clause License
libldb	2.3.4	<a href="#">LGPL-3.0-or-later License</a> AND <a href="#">LGPL-2.1-or-later License</a> AND <a href="#">GPL-3.0-or-later License</a>
libmcrypt	2.5.8	<a href="#">LGPL-2.1-only License</a>
libnl	3.5.0	<a href="#">LGPL-2.1-only License</a>
libnsl2	2.0.0	<a href="#">LGPL-2.1-only License</a>
libpciaccess	0.16	MIT License AND MIT License AND
libpcre	8.45	BSD 3-Clause License

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libpcre2	10.40	BSD 3-Clause License
libpng	1.6.39	libpng License
libsm	1.2.3	MIT License
libsodium	1.0.18	ISC License
libtalloc	2.3.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtdb	1.4.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtevent	0.10.2	LGPL-3.0-or-later License
libtirpc	1.3.2	BSD 3-Clause License
libunistring	1.0	LGPL-3.0-or-later License OR GPL-2.0-or-later License
libunwind	1.6.2	MIT License
liburcu	0.13.2	LGPL-2.1-or-later License AND MIT License
libusb-compat	0.1.7	<a href="#">GNU Lesser General Public License v2.1</a>
libusb1	1.0.26	LGPL-2.1-or-later License
libvncserver	0.9.13	GPL-2.0-only License
libx11	1.7.3.1	MIT License AND MIT License AND BSD-1-Clause License AND Historical Permission Notice and Disclaimer AND HPND-sell-variant License
libxau	1.0.9	MIT License
libxaw	1.0.14	MIT License
libxcb	1.14	MIT License
libxcomposite	0.4.5	MIT License
libxcrypt	4.4.30	LGPL-2.1-only License
libxcvt	0.1.1	MIT License
libxdamage	1.1.5	MIT License
libxdmcp	1.1.3	MIT License
libxext	1.3.4	MIT License
libxfixed	6.0.0	MIT License

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libxfont2	2.0.5	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
libxft	2.3.4	MIT License
libxi	1.8	MIT License AND MIT License AND
libxinerama	1.1.4	MIT License
libxkbcommon	1.4.1	MIT License AND MIT License AND
libxkbfile	1.1.0	MIT License
libxml2	2.9.14	MIT License
libxmu	1.1.3	MIT License AND MIT License AND
libxpm	3.5.15	MIT License
libxrandr	1.5.2	MIT License
libxrender	0.9.10	MIT License
libxshmfence	1.3	Historical Permission Notice and Disclaimer
libxt	1.2.1	MIT License AND MIT License AND
libxtst	1.2.3	MIT License
libxxf86vm	1.1.4	MIT License
lines-and-columns	1.2.4	<a href="#">MIT License</a>
linux	5.10	GPL-2.0-only License
linux-firmware-amdgpu	1.0	Firmware-and License
listr2	3.14.0	<a href="#">MIT License</a>
lit	2.4.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-element	3.2.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-html	2.4.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-labs/react	1.0.9	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-labs/scoped-registry-mixin	1.0.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit/reactive-element	1.4.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
LittleGV	7.0.1	<a href="#">MIT License</a>

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llvm	13.0.1	<a href="#">Apache License 2.0 WITH LLVM Exception</a>
loader-runner	4.2.0	<a href="#">MIT License</a>
loader-utils	1.4.0	<a href="#">MIT License</a>
locate-path	5.0.0	<a href="#">MIT License</a>
lodash	4.17.21	<a href="#">MIT License</a>
lodash.debounce	4.0.8	<a href="#">MIT License</a>
lodash.merge	4.6.2	<a href="#">MIT License</a>
lodash.once	4.1.1	<a href="#">MIT License</a>
log-symbols	4.1.0	<a href="#">MIT License</a>
log-update	4.0.0	<a href="#">MIT License</a>
lpkit-udev-common	1.0	MIT License
lru-cache	6.0.0	<a href="#">ISC License</a>
lru-cache	7.7.1	<a href="#">ISC License</a>
lsyf	4.94.0	Spencer-94 License
lttng-ust	2.13.5	LGPL-2.1-or-later License AND MIT License AND GPL-2.0-only License
lwIP	2.1.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lzo	2.10	GPL-2.0-or-later License
magic-string	0.25.7	<a href="#">MIT License</a>
make-dir	3.1.0	<a href="#">MIT License</a>
make-error	1.3.6	<a href="#">ISC License</a>
make-fetch-happen	10.0.6	<a href="#">ISC License</a>
make-fetch-happen	9.1.0	<a href="#">ISC License</a>
makeerror	1.0.12	<a href="#">BSD 3-clause "New" or "Revised" License</a>
mbedtls	2.16.1	<a href="#">Apache License 2.0</a>
mbedtls	3.2.1	<a href="#">Apache License 2.0</a>
mbedtls	3.1.0	<a href="#">Apache License 2.0</a>
MD4 (RFC 1320) Message-Digest Algorithm	unspecific	<a href="#">MD4 license</a>



Package	Version	License
MD5 (RFC 1321) Message-Digest Algorithm	unspecific	<a href="#">RSA Message-Digest License</a>
memfs	3.4.1	<a href="#">The Unlicense</a>
merge-stream	2.0.0	<a href="#">MIT License</a>
merge2	1.4.1	<a href="#">MIT License</a>
mesa	22.0.3	MIT License
mhdfs	0.1.39+git	GPL-3.0-or-later License
micromatch	4.0.4	<a href="#">MIT License</a>
mime-db	1.52.0	<a href="#">MIT License</a>
mime-types	2.1.35	<a href="#">MIT License</a>
mimic-fn	2.1.0	<a href="#">MIT License</a>
minimatch	3.0.4	<a href="#">ISC License</a>
minimatch	5.1.6	<a href="#">ISC License</a>
minimist	1.2.6	<a href="#">MIT License</a>
minipass	3.1.6	<a href="#">ISC License</a>
minipass-collect	1.0.2	<a href="#">ISC License</a>
minipass-fetch	1.4.1	<a href="#">MIT License</a>
minipass-fetch	2.0.3	<a href="#">MIT License</a>
minipass-flush	1.0.5	<a href="#">ISC License</a>
minipass-json-stream	1.0.1	<a href="#">MIT License</a>
minipass-pipeline	1.2.4	<a href="#">ISC License</a>
minipass-sized	1.0.3	<a href="#">ISC License</a>
minizip	2.10.1	<a href="#">zlib License</a>
minizip	2.9.3	<a href="#">zlib License</a>
minizip-ng	3.0.6	<a href="#">zlib License</a>
minizlib	2.1.2	<a href="#">MIT License</a>
mkdirp	1.0.4	<a href="#">MIT License</a>
mkfontscale	1.2.2	MIT License
ms	2.1.2	<a href="#">MIT License</a>
mtdev	1.1.6	MIT License
mtrace-ng	1.0	GPL-2.0-only License
mupdf	1.15.0	AGPL-3.0-only License

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musl-libc	1.1.16	MIT License
mute-stream	0.0.8	<a href="#">ISC License</a>
natural-compare	1.4.0	<a href="#">MIT License</a>
ncurses	6.3+20220423	MIT License
ncurses	6.3	MIT License
negotiator	0.6.3	<a href="#">MIT License</a>
neo-async	2.6.2	<a href="#">MIT License</a>
net-snmp	5.9.3	BSD 3-Clause License AND MIT License
netbase	6.3	GPL-2.0-only License
nettle	3.7.3	LGPL-3.0-or-later License OR GPL-2.0-or-later License
nfs-utils	2.6.1	MIT License AND GPL-2.0-or-later License AND BSD 3-Clause License
nghttp2	1.47.0	MIT License
Nghttp2: HTTP/2 C Library	1.39.90	<a href="#">MIT License</a>
nginx	1.20.1	BSD 2-Clause License
ngrx/store	13.2.0	<a href="#">MIT License</a>
ngx-translate/ core	13.0.0	<a href="#">MIT License</a>
ngx-translate/ http-loader	6.0.0	<a href="#">MIT License</a>
Node Exporter	1.5.0	<a href="#">Apache License 2.0</a>
Node Exporter Full Dashboard	schema version 37	<a href="#">Apache License 2.0</a>
node-addon-api	3.2.1	<a href="#">MIT License</a>
node-gyp	8.4.1	<a href="#">MIT License</a>
node-gyp-build	4.3.0	<a href="#">MIT License</a>
node-int64	0.4.0	<a href="#">MIT License</a>
node-releases	2.0.2	<a href="#">MIT License</a>
nodelib/fs.scan- dir	2.1.5	<a href="#">MIT License</a>
nodelib/fs.stat	2.0.5	<a href="#">MIT License</a>
nodelib/fs.walk	1.2.8	<a href="#">MIT License</a>
nopt	5.0.0	<a href="#">ISC License</a>

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

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

Package	Version	License
optionator	0.9.1	<a href="#">MIT License</a>
ora	5.4.1	<a href="#">MIT License</a>
os-release	1.0	MIT License
os-tmpdir	1.0.2	<a href="#">MIT License</a>
ospath	1.2.2	<a href="#">MIT License</a>
p-limit	2.3.0	<a href="#">MIT License</a>
p-locate	4.1.0	<a href="#">MIT License</a>
p-map	4.0.0	<a href="#">MIT License</a>
p-try	2.2.0	<a href="#">MIT License</a>
pacote	12.0.3	<a href="#">ISC License</a>
parcel/watcher	2.0.4	<a href="#">MIT License</a>
parent-module	1.0.1	<a href="#">MIT License</a>
parse-json	5.2.0	<a href="#">MIT License</a>
parse5	5.1.1	<a href="#">MIT License</a>
parse5	6.0.1	<a href="#">MIT License</a>
path-exists	4.0.0	<a href="#">MIT License</a>
path-is-absolute	1.0.1	<a href="#">MIT License</a>
path-key	3.1.1	<a href="#">MIT License</a>
path-parse	1.0.7	<a href="#">MIT License</a>
path-type	4.0.0	<a href="#">MIT License</a>
pciutils	3.7.0	GPL-2.0-or-later License
PCRE2 library	10.40	<a href="#">BSD 3-clause "New" or "Revised" License</a>
pcsc-lite	1.9.0	BSD 3-Clause License AND GPL-3.0-or-later License
pend	1.2.0	<a href="#">MIT License</a>
performance-now	2.1.0	<a href="#">MIT License</a>
phenomnomnominal/tsquery	4.1.1	<a href="#">MIT License</a>
php	8.1.16	PHP License v3.0
picocolors	1.0.0	<a href="#">ISC License</a>
picomatch	2.3.1	<a href="#">MIT License</a>
pify	2.3.0	<a href="#">MIT License</a>
pirates	4.0.5	<a href="#">MIT License</a>

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pixman	0.40.0	MIT License AND MIT License AND Public Domain
pkg-dir	4.2.0	<a href="#">MIT License</a>
POCO C++ libraries	1.12.4	<a href="#">Boost Software License 1.0</a>
popt	1.18	MIT License
prelude-ls	1.1.2	<a href="#">MIT License</a>
prelude-ls	1.2.1	<a href="#">MIT License</a>
prettier	2.6.0	<a href="#">MIT License</a>
pretty-bytes	5.6.0	<a href="#">MIT License</a>
pretty-format	27.5.1	<a href="#">MIT License</a>
primeicons	4.1.0	<a href="#">MIT License</a>
primeng	11.4.5	<a href="#">MIT License</a>
Prometheus	2.36.2 & 2.41.0	<a href="#">Apache License 2.0</a>
promise-inflight	1.0.1	<a href="#">ISC License</a>
promise-retry	2.0.1	<a href="#">MIT License</a>
protobuf	3.19.6	BSD 3-Clause License
proxy-from-env	1.0.0	<a href="#">MIT License</a>
psl	1.8.0	<a href="#">MIT License</a>
Public Domain JSON Parser for C	unspecific	<a href="#">The Unlicense</a>
pump	3.0.0	<a href="#">MIT License</a>
punycode	2.1.1	<a href="#">MIT License</a>
pure-ftpd	1.0.47	BSD Zero Clause License
qrcode	4.0.2	<a href="#">GNU Lesser General Public License v2.1</a>
qs	6.10.4	<a href="#">BSD 3-clause "New" or "Revised" License</a>
queue-microtask	1.2.3	<a href="#">MIT License</a>
randombytes	2.1.0	<a href="#">MIT License</a>
rapidjson	1.1.0	<a href="#">MIT License</a>
RapidXml XML parser	1.13	<a href="#">Boost Software License 1.0</a>
react-is	17.0.2	<a href="#">MIT License</a>
read-package- json-fast	2.0.3	<a href="#">ISC License</a>

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readable-stream	3.6.0	<a href="#">MIT License</a>
readdirp	3.6.0	<a href="#">MIT License</a>
readline	8.1.2	<a href="#">GPL-3.0-or-later License</a>
regenerate	1.4.2	<a href="#">MIT License</a>
regenerate-uni-code-properties	10.0.1	<a href="#">MIT License</a>
regenerator-runtime	0.13.9	<a href="#">MIT License</a>
regenerator-transform	0.14.5	<a href="#">MIT License</a>
regexp	3.2.0	<a href="#">MIT License</a>
regexpu-core	5.0.1	<a href="#">MIT License</a>
regjsgen	0.6.0	<a href="#">MIT License</a>
regjsparser	0.8.4	<a href="#">BSD 2-clause "Simplified" License</a>
remez-exchange	1.0	<a href="#">GNU Lesser General Public License v3.0</a>
request-progress	3.0.0	<a href="#">MIT License</a>
require-directory	2.1.1	<a href="#">MIT License</a>
require-from-string	2.0.2	<a href="#">MIT License</a>
require-main-file-name	2.0.0	<a href="#">ISC License</a>
ResizableLib	1.1	<a href="#">Artistic License 1.0</a>
resolve	1.22.0	<a href="#">MIT License</a>
resolve-from	4.0.0	<a href="#">MIT License</a>
resolve-from	5.0.0	<a href="#">MIT License</a>
resolve.exports	1.1.0	<a href="#">MIT License</a>
restore-cursor	3.1.0	<a href="#">MIT License</a>
retry	0.12.0	<a href="#">MIT License</a>
reusify	1.0.4	<a href="#">MIT License</a>
rfdc	1.3.0	<a href="#">MIT License</a>
rgb	1.0.6	<a href="#">MIT License</a>
rimraf	3.0.2	<a href="#">ISC License</a>
Roboto-Bold	2.001150; 2014	<a href="#">Apache License 2.0</a>
Roboto-BoldItalic	2.001150; 2014	<a href="#">Apache License 2.0</a>
Roboto-Italic	2.001101; 2014	<a href="#">Apache License 2.0</a>
Roboto-Medium	2.001152; 2014	<a href="#">Apache License 2.0</a>

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Roboto-Medium-Italic	2.001152; 2014	<a href="#">Apache License 2.0</a>
Roboto-Regular	2.001101; 2014	<a href="#">Apache License 2.0</a>
RobotoCondensed-Bold	2.001240; 2014	<a href="#">Apache License 2.0</a>
RobotoCondensed-BoldItalic	2.001240; 2014	<a href="#">Apache License 2.0</a>
RobotoCondensed-Italic	2.001240; 2014	<a href="#">Apache License 2.0</a>
RobotoCondensed-Regular	2.001201; 2014	<a href="#">Apache License 2.0</a>
RobotoMono-Bold	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono-BoldItalic	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono-Italic	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono-Light	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono-LightItalic	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono-Regular	2.000986; 2015	<a href="#">Apache License 2.0</a>
rpcbind	1.2.6	BSD 3-Clause License
rsmic	git	GPL-2.0-only License
rssh	2.3.4	BSD 2-Clause License
run-async	2.4.1	<a href="#">MIT License</a>
run-parallel	1.2.0	<a href="#">MIT License</a>
rxjs	6.6.7	<a href="#">Apache License 2.0</a>
rxjs	7.8.0	<a href="#">Apache License 2.0</a>
rxjs-for-await	0.0.2	<a href="#">MIT License</a>
safe-buffer	5.1.2	<a href="#">MIT License</a>
safe-buffer	5.2.1	<a href="#">MIT License</a>
safer-buffer	2.1.2	<a href="#">MIT License</a>
samba	4.14.14	GPL-3.0-or-later License AND LGPL-3.0-or-later License AND GPL-2.0-or-later License



Package	Version	License
Samples for Win32 desktop apps using toast notifications	Git commit 99e0fd3628c58150cf75db8f75aaf4810212cf61 (2020-07-21)	MIT License
saxes	5.0.1	ISC License
schema-utils	2.7.0	MIT License
schema-utils	3.1.1	MIT License
schematics/ angular	13.2.6	MIT License
semver	6.3.0	ISC License
semver	7.0.0	ISC License
semver	7.3.4	ISC License
semver	7.3.5	ISC License
Sentry-Native	0.6.1	MIT License
serialize-javascript	6.0.0	BSD 3-clause "New" or "Revised" License
set-blocking	2.0.0	ISC License
setxkbmap	1.3.2	MIT License
shadow	4.11.1	BSD 3-Clause License
shadow-securetty	4.6	MIT License
shallow-clone	3.0.1	MIT License
shebang-command	2.0.0	MIT License
shebang-regex	3.0.0	MIT License
side-channel	1.0.4	MIT License
signal-exit	3.0.7	ISC License
sinonjs/ commons	1.8.3	BSD 3-clause "New" or "Revised" License
sinonjs/fake-timers	8.1.0	BSD 3-clause "New" or "Revised" License
slash	3.0.0	MIT License
slice-ansi	3.0.0	MIT License
slice-ansi	4.0.0	MIT License
smart-buffer	4.2.0	MIT License
smartmontools	7.3	GPL-2.0-only License
smwhostpci-mod	0.1	GPL-2.0-only License

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socks	2.6.2	MIT License
socks-proxy-agent	6.1.1	MIT License
source-map	0.6.1	BSD 3-clause "New" or "Revised" License
source-map	0.7.3	BSD 3-clause "New" or "Revised" License
source-map-support	0.5.21	MIT License
sourcemap-codec	1.4.8	MIT License
sprintf-js	1.0.3	BSD 3-clause "New" or "Revised" License
SQLite	3.38.1	SQLITE Copyright Notice
sqlite3	3.38.5	Public Domain
sshpk	1.17.0	MIT License
ssri	8.0.1	ISC License
stack-utils	2.0.5	MIT License
STM32F4 HAL	1.7.8	BSD 3-clause "New" or "Revised" License
STM32F4 HAL	1.8.1	BSD 3-clause "New" or "Revised" License
strace	5.16	LGPL-2.1-or-later License AND GPL-2.0-or-later License
string-length	4.0.2	MIT License
string-width	4.2.3	MIT License
string_decoder	1.3.0	MIT License
strip-ansi	6.0.1	MIT License
strip-bom	3.0.0	MIT License
strip-bom	4.0.0	MIT License
strip-final-new-line	2.0.0	MIT License
strip-json-comments	3.1.1	MIT License
supports-color	5.5.0	MIT License
supports-color	7.2.0	MIT License
supports-color	8.1.1	MIT License
supports-hyperlinks	2.2.0	MIT License
supports-preserve-symlinks-flag	1.0.0	MIT License

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swc-node/core	1.8.2	<a href="#">MIT License</a>
swc-node/register	1.4.2	<a href="#">MIT License</a>
swc-node/sourcemap-support	0.1.11	<a href="#">MIT License</a>
swc/core	1.2.160	<a href="#">Apache License 2.0</a>
swc/core-linux-x64-gnu	1.2.160	<a href="#">Apache-2.0 AND MIT License</a>
swc/core-linux-x64-musl	1.2.160	<a href="#">Apache-2.0 AND MIT License</a>
symbol-observable	4.0.0	<a href="#">MIT License</a>
symbol-tree	3.2.4	<a href="#">MIT License</a>
sysstat	12.4.5	<a href="#">GPL-2.0-or-later License</a>
systemd	250.5	<a href="#">GPL-2.0-only License AND LGPL-2.1-only License</a>
systemd-serial-getty	1.0	<a href="#">GPL-2.0-or-later License</a>
tapable	1.1.3	<a href="#">MIT License</a>
tapable	2.2.1	<a href="#">MIT License</a>
tar	6.1.11	<a href="#">ISC License</a>
tcp-wrappers	7.6	<a href="#">BSD-1-Clause License</a>
terminal-link	2.1.1	<a href="#">MIT License</a>
terser	5.12.1	<a href="#">BSD 2-clause "Simplified" License</a>
terser-webpack-plugin	5.3.1	<a href="#">MIT License</a>
test-exclude	6.0.0	<a href="#">ISC License</a>
text-table	0.2.0	<a href="#">MIT License</a>
throat	6.0.1	<a href="#">MIT License</a>
throttleit	1.0.0	<a href="#">MIT License</a>
through	2.3.8	<a href="#">MIT License</a>
tiff	4.3.0	<a href="#">BSD 2-Clause License</a>
tmp	0.0.33	<a href="#">MIT License</a>
tmp	0.2.1	<a href="#">MIT License</a>
tmpl	1.0.5	<a href="#">BSD 3-clause "New" or "Revised" License</a>
to-fast-properties	2.0.0	<a href="#">MIT License</a>

Package	Version	License
to-regexp-range	5.0.1	MIT License
tootallnate/once	1.1.2	MIT License
tootallnate/once	2.0.0	MIT License
tough-cookie	2.5.0	BSD 3-clause "New" or "Revised" License
tough-cookie	4.0.0	BSD 3-clause "New" or "Revised" License
tr46	2.1.0	MIT License
Tray (cross platform tray icon library)	8dd1358b92562faf7c032cf5362fa97cbc7e13e9	MIT License
ts-loader	9.2.8	MIT License
ts-node	9.1.1	MIT License
tsconfig-paths	3.14.1	MIT License
tsconfig-paths-webpack-plugin	3.5.2	MIT License
tslib	1.14.1	BSD Zero Clause License
tslib	2.3.1	BSD Zero Clause License
tunnel-agent	0.6.0	Apache License 2.0
tweetnacl	0.14.5	The Unlicense
type-check	0.3.2	MIT License
type-check	0.4.0	MIT License
type-detect	4.0.8	MIT License
type-fest	0.20.2	((MIT OR Creative Commons Zero v1.0 Universal)
type-fest	0.21.3	((MIT OR Creative Commons Zero v1.0 Universal)
typedarray-to-buffer	3.1.5	MIT License
types/babel__core	7.1.19	MIT License
types/babel__generator	7.6.4	MIT License
types/babel__template	7.4.1	MIT License
types/babel__traverse	7.14.2	MIT License
types/eslint	8.4.1	MIT License

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types/eslint-scope	3.7.3	MIT License
types/estree	0.0.51	MIT License
types/graceful-fs	4.1.5	MIT License
types/istanbul-lib-coverage	2.0.4	MIT License
types/istanbul-lib-report	3.0.0	MIT License
types/istanbul-reports	3.0.1	MIT License
types/json-schema	7.0.10	MIT License
types/json5	0.0.29	MIT License
types/modernizr	3.5.3	MIT License
types/node	14.18.36	MIT License
types/node	16.11.26	MIT License
types/parse-json	4.0.0	MIT License
types/prettier	2.4.4	MIT License
types/sinonjs__fake-timers	8.1.1	MIT License
types/sizzle	2.3.3	MIT License
types/stack-utils	2.0.1	MIT License
types/trusted-types	2.0.2	MIT License
types/uuid	3.4.10	MIT License
types/yargs	16.0.4	MIT License
types/yargs-parser	21.0.0	MIT License
types/yauzl	2.10.0	MIT License
typescript	4.5.5	Apache License 2.0
tzdata	2022g	Public Domain AND BSD 3-Clause License
uhubctl	2.4.0	GPL-2.0-only License
unclutter-xfixes	1.6	MIT License
unicode-canonical-property-names-ecmascript	2.0.0	MIT License

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unicode-match-property-ecmascript	2.0.0	MIT License
unicode-match-property-value-ecmascript	2.0.0	MIT License
unicode-property-aliases-ecmascript	2.0.0	MIT License
unique-filename	1.1.1	ISC License
unique-slug	2.0.2	ISC License
universalify	0.1.2	MIT License
universalify	2.0.0	MIT License
untildify	4.0.0	MIT License
uri-js	4.4.1	BSD 2-clause "Simplified" License
util-deprecate	1.0.2	MIT License
util-linux	2.37.4	GPL-2.0-or-later License AND LGPL-2.1-or-later License AND BSD 3-Clause License AND BSD 4-Clause License
util-linux-libuuid	2.37.4	BSD 3-Clause License
uuid	8.3.2	MIT License
v8-compile-cache	2.3.0	MIT License
v8-to-istanbul	8.1.1	ISC License
validate-npm-package-name	3.0.0	ISC License
verror	1.10.0	MIT License
w3c-hr-time	1.0.2	MIT License
w3c-xmlserializer	2.0.0	MIT License
walker	1.0.8	Apache License 2.0
watchpack	2.3.1	MIT License
wcwidth	1.0.1	MIT License
webassemblyjs/ast	1.11.1	MIT License
webassemblyjs/floating-point-hex-parser	1.11.1	MIT License
webassemblyjs/helper-api-error	1.11.1	MIT License

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webassemblyjs/ helper-buffer	1.11.1	MIT License
webassemblyjs/ helper-numbers	1.11.1	MIT License
webassemblyjs/ helper-wasm- bytecode	1.11.1	MIT License
webassemblyjs/ helper-wasm- section	1.11.1	MIT License
webassemblyjs/ ieee754	1.11.1	MIT License
webassemblyjs/ leb128	1.11.1	Apache License 2.0
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webpack-sour- ces	3.2.3	MIT License
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whatwg-mime- type	2.3.0	MIT License
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which-module	2.0.0	<a href="#">ISC License</a>
wide-align	1.1.5	<a href="#">ISC License</a>
wildcard	2.0.0	<a href="#">MIT License</a>
Windows Exporter	0.20.0	<a href="#">MIT License</a>
Windows Exporter Dashboard	schema version 26	<a href="#">The Unlicense</a>
Windows Service Wrapper (WinSW)	2.11.0	<a href="#">MIT License</a>
word-wrap	1.2.3	<a href="#">MIT License</a>
wrap-ansi	6.2.0	<a href="#">MIT License</a>
wrap-ansi	7.0.0	<a href="#">MIT License</a>
wrappy	1.0.2	<a href="#">ISC License</a>
write-file-atomic	3.0.3	<a href="#">ISC License</a>
ws	7.5.7	<a href="#">MIT License</a>
x11vnc	0.9.16+git	<a href="#">GPL-2.0-or-later License</a>
xauth	1.1.1	<a href="#">MIT License</a>
xcb-util	0.4.0	<a href="#">MIT License</a>
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xcb-util-keysyms	0.4.0	<a href="#">MIT License</a>
xcb-util-renderutil	0.3.9	<a href="#">MIT License</a>
xcb-util-wm	0.4.1	<a href="#">MIT License</a>
xerces-c	3.2.3	<a href="#">Apache License 2.0</a>
xf86-input-evdev	2.10.6	<a href="#">MIT License</a>
xf86-input-keyboard	1.9.0	<a href="#">MIT License</a>
xf86-input-libinput	1.2.1	<a href="#">MIT License</a>
xf86-input-mouse	1.9.3	<a href="#">MIT License</a>
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xf86-video-vesa	2.5.0	MIT License
xinit	1.4.1	MIT License
xinput	1.6.3	MIT License
xinput-calibrator	0.7.5+git	MIT License
xkbcomp	1.4.5	MIT License
xkeyboard-config	2.35.1	MIT License AND MIT License AND
xml-name-validator	3.0.0	<a href="#">Apache License 2.0</a>
xmlchars	2.2.0	<a href="#">MIT License</a>
xorg-minimal-fonts	1.0	Public Domain
xserver-xf86-config	0.1	MIT License
xserver-xorg	21.1.8	MIT License
xset	1.2.4	MIT License
xterm	372	MIT License
xtuc/ieee754	1.2.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
xtuc/long	4.2.2	<a href="#">Apache License 2.0</a>
xz	5.2.6	GPL-2.0-or-later License AND <a href="#">GNU General Public License v3.0 WITH Autoconf exception 3.0</a> AND LGPL-2.1-or-later License AND Public Domain
XZIP and XUN-ZIP	1.3	<a href="#">Info-ZIP License</a>
y18n	4.0.3	<a href="#">ISC License</a>
yallist	4.0.0	<a href="#">ISC License</a>
yaml	1.10.2	<a href="#">ISC License</a>
yargs	15.4.1	<a href="#">MIT License</a>
yargs-parser	18.1.3	<a href="#">ISC License</a>
yargs-parser	20.0.0	<a href="#">ISC License</a>
yarnpkg/lockfile	1.1.0	<a href="#">BSD 2-clause "Simplified" License</a>
yauzl	2.10.0	<a href="#">MIT License</a>
yn	3.1.1	<a href="#">MIT License</a>

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

LLVM Compiler is developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

MD4 (RFC 1320) Message-Digest Algorithm is derived from the RSA Data Security, Inc. MD4 Message-Digest Algorithm

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Version 3, 19 November 2007

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## 3.13 GCC Runtime Library exception 3.1

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Version 3.1, 31 March 2009

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Version 2, June 1991

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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

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Android Explicit Synchronization

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ARCore SDK

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ARCore SDK client library for Chrome

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Blackmagic DeckLink SDK - Mac

Project

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Breakpad, An open-source multi-platform crash reportingsystem

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Chrome Custom Tabs - Example and Usage

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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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Compact Encoding Detection  
 Project Homepage: [https://github.com/google/compact\\_enc\\_det](https://github.com/google/compact_enc_det)

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d3

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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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FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to
FFmpeg to the GPL v3. ### Incompatible libraries There are certain libraries you can combine
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modifications by Alexander Strange <astrange@ithinksw.com>; Originally from
dct/x86_asm/fdct_sse2_skal.asm in Xvid. Vertical pass is an implementation of the scheme: Loe
Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT Algorithm with Eleven Multiplications,
ICASSP 1989, 988-991. Horizontal pass is a double 4x4 vector/matrix multiplication, (see also
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google-glog's symbolization library

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

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google-jstemplate

Project Homepage: <http://code.google.com/p/google-jstemplate/>

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

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./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
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./unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h
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./unsupported/Eigen/src/KroneckerProduct/KroneckerTensorProduct.h
./unsupported/Eigen/src/NonLinearOptimization/LevenbergMarquardt.h

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./unsupported/Eigen/src/NonLinearOptimization/HybridNonLinearSolver.h
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./unsupported/Eigen/src/AutoDiff/AutoDiffVector.h ./unsupported/Eigen/src/Splines/Spline.h
./unsupported/Eigen/src/Splines/SplineFitting.h ./unsupported/Eigen/src/Splines/SplineFwd.h
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./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
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./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
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./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/Matrix.h ./Eigen/src/Eigen2Support/Block.h ./Eigen/src/Eigen2Support/Matrix.h
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./Eigen/src/Jacobi/Jacobi.h ./Eigen/src/misc/Kernel.h ./Eigen/src/misc/SparseSolve.h ./Eigen/src/misc/Image.h
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./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
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./Eigen/src/Geometry/Scaling.h ./Eigen/src/Geometry/AngleAxis.h ./Eigen/src/Geometry/Transform.h
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./Eigen/src/plugins/CommonCwiseBinaryOps.h ./Eigen/src/plugins/MatrixCwiseUnaryOps.h
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./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
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./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

```

```

./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
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./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
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./Eigen/src/SparseLU/SparseLU_SupernodalMatrix.h ./Eigen/src/SparseLU/SparseLU_Utils.h
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./Eigen/src/SparseLU/SparseLU_pivotL.h ./Eigen/src/SparseLU/SparseLU_Memory.h
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./Eigen/src/SparseLU/SparseLU.h ./Eigen/src/SparseLU/SparseLU_column_bmod.h
./Eigen/src/SparseLU/SparseLU_pruneL.h ./Eigen/src/IterativeLinearSolvers/IncompleteLUT.h
./Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h
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./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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./unsupported/Eigen/src/LevenbergMarquardt/LMcovar.h
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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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LevelDB: A Fast Persistent Key-Value Store

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libprotobuf-mutator

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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

Project Homepage: <https://github.com/google/private-join-and-compute>

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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

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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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usrstcp

Project Homepage: <http://github.com/sctplab/usrstcp>

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v4l-utils

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V8 JavaScript Engine

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valgrind

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WDS

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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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xdg-utils

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yasm

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```

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

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

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

```
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```

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USA.
```

```
*/
```

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

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

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

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

```
/**
```

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\*\*\*/

#include "rr.h"

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

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\*\*\*/

#ifdef HAVE\_CONFIG\_H

#include <config.h>

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

```

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#define fooclienthfoo

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 */

#include <inttypes.h>

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```
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```
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```

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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

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apply and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

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

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
```



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

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

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

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

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

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```
=====
binutils-2.38: COPYING.LIB
gdb-11.2: COPYING.LIB
=====
```

GNU LIBRARY GENERAL PUBLIC LICENSE  
Version 2, June 1991

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

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

Most GNU software, including some libraries, is covered by the ordinary

GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or

link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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use both them and the Library together in an executable that you distribute.

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14. If you wish to incorporate parts of the Library into other free

programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

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#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

That's all there is to it!

```

=====
binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
cifs-utils-6.14: COPYING
elfutils-0.186: COPYING
gcc-runtime-11.3.0: COPYING3
gdb-11.2: COPYING3
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grub-2.06: COPYING
grub-2.04+2.06~rc1: COPYING
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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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Julian Seward, Cambridge, UK.

jseward@bzip.org

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

loginrec.c

loginrec.h

atomicio.h

atomicio.c

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```
=====
e2fsprogs-1.46.5: NOTICE
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Theodore Ts'o  
23-June-2007

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

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

```
/*
 * ext2fs.h --- ext2fs
 *
 * Copyright (C) 1993, 1994, 1995, 1996 Theodore Ts'o.
 *
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```

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

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

```

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

/*
* Public include file for the UUID library
*
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=====
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e2fsprogs-1.46.1: lib/uuid/COPYING
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```
=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
e2fsprogs-1.46.1: lib/et/et_name.c, 1-11
=====
```

```
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```
=====
e2fsprogs-1.46.5: lib/ss/ss.h, 1-20
e2fsprogs-1.46.1: lib/ss/ss.h, 1-20
=====
```

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*
* "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.
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     your option) any later version

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```

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

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Juliusz Chroboczek

```
=====
e-wm-16-1.0.13: COPYING
=====
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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 */
/*-
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* OF SUCH DAMAGE.
*/
/* exec-notify, so you can watch your acrobat reader or vim executing "bash -c"
* commands ;-)
* Requires some 2.6.x Linux kernel with proc connector enabled.
*
* $ cc -Wall -ansi -pedantic -std=c99 exec-notify.c
*
* (C) 2007-2010 Sebastian Kraemer <kraemer@suse.de> original netlink handling
* stolen from an proc-connector example, copyright follows:
*/
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*/

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

```



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```
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```

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```

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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

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

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```
=====
font-alias-1.0.4: COPYING
=====
```

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

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



```

koi8x16bold -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
koi9x15 -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
koi9x15bold -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
koi9x18 -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
koi9x18bold -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
koi10x16bold -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
koi10x20 -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
koi12x24 -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r
koi12x24bold -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
koinil2 -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
screen8x16 -screen-fixed-medium-r-normal--16-120-100-100-c-80-koi8-r
screen8x16b -screen-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

```

```

rk14      -misc-fixed-medium-r-normal--14-*-*-*-*-*jisx0201.1976-0
r16       -sony-fixed-medium-r-normal--16-*-*-*-*-*jisx0201.1976-0
rk16      -sony-fixed-medium-r-normal--16-*-*-*-*-*jisx0201.1976-0
r24       -sony-fixed-medium-r-normal--24-*-*-*-*-*jisx0201.1976-0
rk24      -sony-fixed-medium-r-normal--24-*-*-*-*-*jisx0201.1976-0
kana14    -misc-fixed-medium-r-normal--14-*-*-*-*-*jisx0201.1976-0
8x16kana  -sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
8x16romkana -sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
12x24kana  -sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
12x24romkana -sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
kanji16   -jis-fixed-medium-r-normal--16-*-*-*-*-*jisx0208.1983-0
kanji24   -jis-fixed-medium-r-normal--24-*-*-*-*-*jisx0208.1983-0

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

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

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

```

```

-misc-fixed-bold-r-normal--15-140-75-75-c-90-iso8859-1
-misc-fixed-medium-r-normal--20-140-100-100-c-100-iso8859-1
-misc-fixed-medium-r-normal--20-200-75-75-c-100-iso8859-1
-misc-fixed-medium-r-semicondensed--13-100-100-100-c-60-iso8859-8
-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-8
-misc-fixed-medium-r-normal--13-100-100-100-c-80-iso8859-8
-misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-8
-sony-fixed-medium-r-normal--16-150-75-75-c-80-iso8859-1
-sony-fixed-medium-r-normal--16-120-100-100-c-80-iso8859-1
-sony-fixed-medium-r-normal--16-150-75-75-c-80-jisx0201.1976-0
-sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
-sony-fixed-medium-r-normal--24-230-75-75-c-120-iso8859-1
-sony-fixed-medium-r-normal--24-170-100-100-c-120-iso8859-1
-sony-fixed-medium-r-normal--24-230-75-75-c-120-jisx0201.1976-0
-sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
-jis-fixed-medium-r-normal--16-110-100-100-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--16-150-75-75-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-170-100-100-c-240-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-230-75-75-c-240-jisx0208.1983-0

```

```

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

```

```

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

```

```

lucidasans-14 -b&h-lucida-medium-r-normal-sans-20-140-100-100-p-114-iso8859-1
lucidasans-18 -b&h-lucida-medium-r-normal-sans-25-180-100-100-p-142-iso8859-1
lucidasans-24 -b&h-lucida-medium-r-normal-sans-34-240-100-100-p-191-iso8859-1
lucidasanstypewriter-bold-8
-b&h-lucidatypewriter-bold-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-bold-10
-b&h-lucidatypewriter-bold-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-bold-12
-b&h-lucidatypewriter-bold-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-bold-14
-b&h-lucidatypewriter-bold-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-bold-18
-b&h-lucidatypewriter-bold-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-bold-24
-b&h-lucidatypewriter-bold-r-normal-sans-34-240-100-100-m-200-iso8859-1
lucidasanstypewriter-8
-b&h-lucidatypewriter-medium-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-10
-b&h-lucidatypewriter-medium-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-12
-b&h-lucidatypewriter-medium-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-14
-b&h-lucidatypewriter-medium-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-18
-b&h-lucidatypewriter-medium-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-24
-b&h-lucidatypewriter-medium-r-normal-sans-34-240-100-100-m-200-iso8859-1

```

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fontconfig-2.13.1: COPYING
=====

```

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

```
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\*/

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

/\*

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 \* 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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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
=====
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glib-2.0-2.72.3: COPYING
glib-2.0-2.72.3: gmodule/COPYING
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```
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=====
```

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

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```
=====
gnutls-3.7.4: LICENSE
=====
```

```
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iptables-1.8.7: iptables/iptables.c, 13-25

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```
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/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.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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libdaemon-0.14: libdaemon/daemon.h, 9-21
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libdrm-2.4.110: xf86drm.c, 9-32
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=====
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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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

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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.

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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```

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

```
/* idn2.c - command line interface to libidn2
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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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 * Modified 2019 by Guido Vollbeding.
 * libjpeg-turbo Modifications:
 * Copyright (C) 2017, 2019, 2021, D. R. Commander.
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 * file.
 *
 * This file contains common declarations for the sample applications
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```

```
=====
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.

```

```

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

```

```

    ** NOTE! The following LGPL license applies to the 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
Copyright (C) Andrew Tridgell          2001
Copyright (C) Andrew Bartlett        2012

```

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

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 Email domain: gmail.com

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

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libsodium-1.0.18: LICENSE
=====
```

```
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 */
```

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

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

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\*/

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

/\*

Unix SMB/CIFS implementation.  
Samba utility functions  
Copyright (C) Jelmer Vernooij <jelmer@samba.org> 2008

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

/\*

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

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

#ifndef __TDB_H__
#define __TDB_H__

/*
   Unix SMB/CIFS implementation.

   trivial database library

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   ** library. This does NOT imply that all of Samba is released
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   License along with this library; if not, see <http://www.gnu.org/licenses/>.
*/

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

/*
   Unix SMB/CIFS implementation.

   generalised event loop handling

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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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-----

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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 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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@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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@end ifnohtml

@end titlepage

@c Table of Contents

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@node Top

@top GNU libunistring

@end ifnottex

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* Conventions::	Conventions used in this manual
* unistypes.h::	Elementary types
* unistr.h::	Elementary Unicode string functions
* uniconv.h::	Conversions between Unicode and encodings
* unistdio.h::	Output with Unicode strings
* uniname.h::	Names of Unicode characters
* unictype.h::	Unicode character classification and properties
* uniwidth.h::	Display width
* unigbrk.h::	Grapheme cluster breaking
* uniwbrk.h::	Word breaks in strings
* unilbrk.h::	Line breaking
* uninorm.h::	Normalization forms
* unicase.h::	Case mappings
* uniregex.h::	Regular expressions
* Using the library::	How to link with the library and use it?
* More functionality::	More advanced functionality
* The wchar_t mess::	Why @code{wchar_t *} strings are useless
* The char32_t problem::	Why @code{char32_t *} strings are problematic
* Licenses::	Licenses
* Index::	General Index

@detailmenu

--- The Detailed Node Listing ---

Introduction

* Unicode::	What is Unicode?
* Unicode and i18n::	Unicode and internationalization
* Locale encodings::	What is a locale encoding?
* In-memory representation::	How to represent strings in memory?

```
* char * strings::          What to keep in mind with @code{char *} strings
* Unicode strings::        How are Unicode strings represented?
```

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

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* Counting characters::
```

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* Copying a NUL terminated Unicode string::
* Comparing NUL terminated Unicode strings::
* Duplicating a NUL terminated Unicode string::
* Searching for a character in a NUL terminated Unicode string::
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* Tokenizing::
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* Bidi class::
* Decimal digit value::
* Digit value::
* Numeric value::
* Mirrored character::
* Arabic shaping::
* Properties::
* Scripts::
* Blocks::
* ISO C and Java syntax::
* Classifications like in ISO C::
```

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```



```
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* Properties as functions::

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

uniwbrk.h

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

uninorm.h

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

unicase,h

* Case mappings of characters::
* Case mappings of strings::
* Case mappings of substrings::
* Case insensitive comparison::
* Case detection::

Using the library

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

Licenses

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

@end detailmenu
@end menu
```

```
@node Introduction
@chapter Introduction
```

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

It consists of the following parts:

```
@table @code
@item <unistr.h>
elementary string functions
@item <unicov.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 `{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 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 `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{mbscasecmp}, @func{mbsncascmp}, @func{mbspcascmp}, and @func{mbscasestr} that are like @posixfunc{strcascmp}, @posixfunc{strncascmp}, and @posixfunc{strcasestr}, but work in multibyte locales. Still, the function @code{ulc\_cascmp} 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 @code{<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{@code{u8\_str}}/@code{@code{u16\_str}}/@code{@code{u32\_str}} denote a NUL terminated string.

@cindex return value conventions

Error values are always returned through the `{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 `{int}`).

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

```
@include unitypes.texi
@include unistr.texi
@include uniconv.texi
@include unistdio.texi
@include uniname.texi
@include unictype.texi
@include uniwidth.texi
@include unigbrk.texi
@include uniwbrk.texi
@include unilbrk.texi
@include uninorm.texi
@include 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 `{(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 `{(major<<8) + minor}`.  
`@end deftypevr`

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

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

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

`@amindex gl_LIBUNISTRING`  
 The macro is called `{gl_LIBUNISTRING}`. It searches for an installed libunistring. If found, it sets and AC\_SUBSTs `{HAVE_LIBUNISTRING=yes}` and the `{LIBUNISTRING}` and `{LTLIBUNISTRING}` variables and augments the `{CPPFLAGS}` variable, and defines the C macro `{HAVE_LIBUNISTRING}` to 1. Otherwise, it sets and AC\_SUBSTs `{HAVE_LIBUNISTRING=no}` and `{LIBUNISTRING}` and `{LTLIBUNISTRING}` to empty.

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

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

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

`@item`  
 GNU `{libunistring}`, if installed, is not necessarily already in the run time library search path. To avoid the need for setting an environment

variable like `@code{LD_LIBRARY_PATH}`, the macro adds the appropriate run time search path options to the `@code{LIBUNISTRING}` variable. This works on most systems.

@end itemize

@node Reporting problems  
@section Reporting problems

@cindex bug reports  
@cindex bug tracker  
@cindex mailing list

If you encounter any problem, please don't hesitate to submit a detailed bug report either in the bug tracker at the project page [@url{https://savannah.gnu.org/projects/libunistring}](https://savannah.gnu.org/projects/libunistring), or by email to the `@code{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 `@code{libunistring}`, for which you don't find the remedy in the `@file{INSTALL}` file, please include a description of the options that you passed to the `@samp{configure}` script.

@node More functionality  
@chapter More advanced functionality

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

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

@include wchar\_t.texi

@include char32\_t.texi

@node Licenses  
@appendix Licenses  
@cindex Licenses

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

@itemize @bullet  
@item

The `@code{libunistring}` library and its header files are dual-licensed under

```

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

@item
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by the Free Software Foundation (FSF).
A copy of the license is included in @ref{GNU GPL}.
@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>
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Lesser General Public
 * License as published by the Free Software Foundation; either
 * version 2.1 of the License, or (at your option) any later version.
 *
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*/
```

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

```
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*
* 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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```

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libxi-1.8: src/XIGetDevFocus.c, 1-23

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libxinerama-1.1.4: src/Xinerama.c, 2-25



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libxml2-2.9.14: hash.c, 6-15
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libxml2-2.9.14: trio.c, 5-14  
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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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snprintf/local.h
snprintf/mbrtowc_sb.c
snprintf/snprintf.c
snprintf/variou.h
snprintf/vfprintf.c
snprintf/wcio.h:5
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=====
lzo-2.10: src/lzo_init.c, 5-25
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Component	Location	License
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```

+-----+-----+-----+
| Gallium code | src/gallium/ | MIT |
+-----+-----+-----+
| Ext headers | include/GL/glexth.h, | Khronos |
| | include/GL/glxext.h | |
+-----+-----+-----+
| GLX client code | src/glx/ | SGI Free Software License B |
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| C11 thread | include/c11/threads*.h | Boost (permissive) |
| emulation | | |
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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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nfs-utils-2.6.1: COPYING
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```

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```

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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
```

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

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```
=====
pixman-0.40.0: pixman/pixman-arm-neon-asm.h, 1-24
=====
```

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rsmic-git: rsmic.c, 1-1
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rssh-2.3.4: LICENSE
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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"

```

```

=====
smwhostpci-mod-0.1: COPYING
=====

```

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sqlite3-3.38.5: sqlite3.h, 1-11
=====
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x11vnc-0.9.16+git: src/x11vnc.h, 1-31
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```

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=====

xcb-util-0.4.0: src/xcb\_aux.c, 1-30

=====

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=====
xcb-util-0.4.0: src/xcb_event.h, 1-27
=====

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=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====

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

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=====  
xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30  
=====
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=====  
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24  
=====
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=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====

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=====
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24
=====

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=====
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
=====

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=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
=====
```

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=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====
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=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
=====

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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
"Keep this file name-space clean" means, talk to drepper@gnu.org
before changing it!
```

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zlib-1.2.11: zlib.h, 6-23
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