

# R&S®SMCV100B 5.20.043.48

## Vector Signal Generator

### Open Source Acknowledgment



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Version 05.00

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# 1 Introduction

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

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

Package	Version	License
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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>
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>
ampproject/ remapping	2.1.2	<a href="#">Apache License 2.0</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/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>
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>

Package	Version	License
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>
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 2.7 License</a>
asio	1.18.1	<a href="#">Boost Software License 1.0</a>
ASN.1 Compiler	1.0	<a href="#">BSD 2-clause "Simplified" License</a>
async	0.9.2	<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>
avahi	0.8	GPL-2.0-or-later License AND LGPL-2.1-or-later License
babel-jest	27.5.1	<a href="#">MIT License</a>
babel-loader	8.2.3	<a href="#">MIT License</a>
babel-plugin-dynamic-import-node	2.3.3	<a href="#">MIT License</a>
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babel-plugin-jest-hoist	27.5.1	<a href="#">MIT License</a>
babel-plugin-polyfill-corejs2	0.3.1	<a href="#">MIT License</a>
babel-plugin-polyfill-corejs3	0.5.2	<a href="#">MIT License</a>
babel-plugin-polyfill-regenerator	0.3.1	<a href="#">MIT License</a>
babel-preset-current-node-syntax	1.0.1	<a href="#">MIT License</a>
babel-preset-jest	27.5.1	<a href="#">MIT License</a>
babel/code-frame	7.16.7	<a href="#">MIT License</a>

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babel/plugin-transform-to-void-of-symbol	7.16.7	<a href="#">MIT License</a>
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babel/plugin-transform-unicode-regex	7.16.7	<a href="#">MIT License</a>
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balanced-match	1.0.2	<a href="#">MIT License</a>
base-files	3.0.14	GPL-2.0-only License
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base64-js	1.5.1	<a href="#">MIT License</a>
bcoe/v8-coverage	0.2.3	<a href="#">MIT License</a>
big.js	5.2.2	<a href="#">MIT License</a>
binary-extensions	2.2.0	<a href="#">MIT License</a>
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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-from	1.1.2	<a href="#">MIT License</a>
busybox	1.35.0	GPL-2.0-only License AND bzip2 License
busybox-inittab	1.35.0	GPL-2.0-only License
bzip2	1.0.8	bzip2 License
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>

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char-regex	1.0.2	<a href="#">MIT License</a>
chokidar	3.5.3	<a href="#">MIT 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
cli-cursor	3.1.0	<a href="#">MIT License</a>
cli-spinners	2.6.1	<a href="#">MIT 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>
co	4.6.0	<a href="#">MIT License</a>
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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>
combined-stream	1.0.8	<a href="#">MIT License</a>
commander	2.20.3	<a href="#">MIT License</a>
comondir	1.0.1	<a href="#">MIT License</a>
concat-map	0.0.1	<a href="#">MIT License</a>
convert-source-map	1.8.0	<a href="#">MIT License</a>
core-js	3.21.1	<a href="#">MIT License</a>

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core-js-compat	3.21.1	<a href="#">MIT License</a>
cosmiconfig	6.0.0	<a href="#">MIT License</a>
cpprest	2.10.18	MIT License
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	7.82.0	MIT-open-group License
cypress/ webpack-prepro- cessor	5.11.1	<a href="#">MIT License</a>
data-urls	2.0.0	<a href="#">MIT License</a>
dbus	1.14.0	<a href="#">Academic Free License v2.1</a> OR <a href="#">GPL-2.0-or-later License</a>
DCPLib	0.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
debug	4.3.3	<a href="#">MIT License</a>
decamelize	1.2.0	<a href="#">MIT License</a>
decimal.js	10.3.1	<a href="#">MIT License</a>
dedent	0.7.0	<a href="#">MIT License</a>
deep-is	0.1.4	<a href="#">MIT License</a>
deepmerge	4.2.2	<a href="#">MIT License</a>
defaults	1.0.3	<a href="#">MIT License</a>
define-lazy-prop	2.0.0	<a href="#">MIT License</a>
define-properties	1.1.3	<a href="#">MIT License</a>
delayed-stream	1.0.0	<a href="#">MIT License</a>
detect-newline	3.1.0	<a href="#">MIT License</a>
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diff	4.0.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
diff-sequences	27.5.1	<a href="#">MIT License</a>
dmidecode	3.3	GPL-2.0-only License
doctrine	3.0.0	<a href="#">Apache License 2.0</a>
domexception	2.0.1	<a href="#">MIT License</a>



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dosfstools	4.2	GPL-3.0-only License
dotenv	10.0.0	<a href="#">BSD 2-clause "Simplified" License</a>
double-conversion (V8 project)	unspecific	<a href="#">BSD 3-clause "New" or "Revised" License</a>
dropbear	2020.81	MIT License AND BSD 3-Clause License AND BSD 2-Clause License AND Public Domain
e-wm-16	1.0.13	Enlightenment License (e16)
e2fsprogs	1.46.1	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
e2fsprogs	1.46.5	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
EASTL	3.18.01	<a href="#">BSD 3-clause "New" or "Revised" License</a>
Eigen	3.4.0	<a href="#">Mozilla Public License 2.0</a>
ejs	3.1.6	<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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emoji-regex	8.0.0	<a href="#">MIT License</a>
emojis-list	3.0.0	<a href="#">MIT License</a>
encodings	1.0.6	Public Domain
enhanced-resolve	5.9.2	<a href="#">MIT License</a>
enquirer	2.3.6	<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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eslint-scope	5.1.1	<a href="#">BSD 2-clause "Simplified" License</a>
eslint-scope	7.1.1	<a href="#">BSD 2-clause "Simplified" License</a>
eslint-utils	3.0.0	<a href="#">MIT License</a>
eslint-visitor-keys	2.1.0	<a href="#">Apache License 2.0</a>
eslint-visitor-keys	3.3.0	<a href="#">Apache License 2.0</a>
eslint/eslintrc	1.2.1	<a href="#">MIT License</a>
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estraverse	4.3.0	<a href="#">BSD 2-clause "Simplified" License</a>
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exit	0.1.2	<a href="#">MIT License</a>
expat	2.4.7	<a href="#">MIT License</a>
Expat XML Parser Toolkit	2.4.8	<a href="#">MIT License</a>
expect	27.5.1	<a href="#">MIT License</a>
extrace	0.9	BSD 2-Clause License AND GPL-2.0-or-later License
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>

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fb-watchman	2.0.1	<a href="#">Apache License 2.0</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	1.0.2	<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	GPL-2.0-or-later License
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>
focus-visible	5.2.0	<a href="#">W3C Software Notice and License (2002-12-31)</a>
font-alias	1.0.4	MIT License
font-util	1.3.3	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
fontconfig	2.13.1	MIT License AND MIT License AND Public Domain
fork-ts-checker- webpack-plugin	6.2.10	<a href="#">MIT License</a>
form-data	3.0.1	<a href="#">MIT License</a>
formfactor	0.0	MIT License
freeRTOS	2.0.11	<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-monkey	1.0.3	<a href="#">The Unlicense</a>
fs.realpath	1.0.0	<a href="#">ISC License</a>
FSBAllocator	2004-09-04	<a href="#">MIT License</a>
function-bind	1.1.1	<a href="#">MIT License</a>
functional-red- black-tree	1.0.1	<a href="#">MIT License</a>

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fuse	2.9.9	GPL-2.0-only License AND LGPL-2.0-only License
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	6.0.1	<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
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>
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
gnutls	3.7.4	GPL-3.0-or-later License AND LGPL-2.1-or-later License
Google Breakpad crash reporting library	Chrome 58 branch	<a href="#">BSD 3-clause "New" or "Revised" License</a>
Google commandline flags module for C++	2.0	<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>

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Google Protobuf protocol buffers library	3.5.2 & 3.9.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
googletest	1.8.1	<a href="#">Lawrence Berkeley National Labs BSD variant license</a>
gperftools	2.9.1	BSD 3-Clause License
graceful-fs	4.2.9	<a href="#">ISC License</a>
grub	2.04+2.06~rc1	GPL-3.0-only License
grub	2.06	GPL-3.0-only License
harmony-reflect	1.6.2	<a href="#">Apache License 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>
haveged	1.9.18	GPL-3.0-only License
hdparm	9.63	BSD 2-Clause License AND GPL-2.0-only License AND hdparm License
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-proxy-agent	4.0.1	<a href="#">MIT License</a>
https-proxy-agent	5.0.0	<a href="#">MIT License</a>
human-signals	2.1.0	<a href="#">Apache License 2.0</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>
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>

Package	Version	License
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>
inflight	1.0.6	<a href="#">ISC License</a>
inherits	2.0.4	<a href="#">ISC License</a>
iptables	1.8.7	GPL-2.0-or-later License
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-interactive	1.0.0	<a href="#">MIT License</a>
is-number	7.0.0	<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>
istanbul-lib-coverage	3.2.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
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>

Package	Version	License
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	10.8.4	<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>
jest-runner	27.5.1	<a href="#">MIT License</a>
jest-runtime	27.5.1	<a href="#">MIT License</a>
jest-serializer	27.5.1	<a href="#">MIT License</a>
jest-snapshot	27.5.1	<a href="#">MIT License</a>
jest-util	27.2.0	<a href="#">MIT License</a>

Package	Version	License
jest-util	27.5.1	<a href="#">MIT License</a>
jest-validate	27.5.1	<a href="#">MIT License</a>
jest-worker	27.5.1	<a href="#">MIT License</a>
jest/console	27.5.1	<a href="#">MIT License</a>
jest/environment	27.5.1	<a href="#">MIT License</a>
jest/fake-timers	27.5.1	<a href="#">MIT License</a>
jest/globals	27.5.1	<a href="#">MIT License</a>
jest/reporters	27.2.2	<a href="#">MIT License</a>
jest/source-map	27.5.1	<a href="#">MIT License</a>
jest/test-result	27.2.2	<a href="#">MIT License</a>
jest/test-result	27.5.1	<a href="#">MIT License</a>
jest/test-sequencer	27.5.1	<a href="#">MIT License</a>
jest/transform	27.5.1	<a href="#">MIT License</a>
jest/types	27.5.1	<a href="#">MIT License</a>
jridgewell/ resolve-uri	3.0.5	<a href="#">MIT License</a>
jridgewell/sour- cemap-codec	1.4.11	<a href="#">MIT License</a>
jridgewell/trace- mapping	0.3.4	<a href="#">MIT License</a>
js-tokens	4.0.0	<a href="#">MIT License</a>
js-yaml	3.14.1	<a href="#">MIT License</a>
js-yaml	4.1.0	<a href="#">MIT License</a>
jsdom	16.7.0	<a href="#">MIT License</a>
jsesc	0.5.0	<a href="#">MIT License</a>
jsesc	2.5.2	<a href="#">MIT License</a>
json-c	0.15	<a href="#">MIT License</a>
json-parse-bet- ter-errors	1.0.2	<a href="#">MIT License</a>
json-parse-even- better-errors	2.3.1	<a href="#">MIT License</a>
json-schema-tra- verse	0.4.1	<a href="#">MIT License</a>
json-schema-tra- verse	1.0.0	<a href="#">MIT License</a>



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json-stable-stringify-without-jsonify	1.0.1	<a href="#">MIT License</a>
json5	1.0.1	<a href="#">MIT License</a>
json5	2.2.1	<a href="#">MIT License</a>
jsonc-parser	3.0.0	<a href="#">MIT License</a>
jsonfile	6.1.0	<a href="#">MIT License</a>
kind-of	6.0.3	<a href="#">MIT License</a>
KissFFT	1.3.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
kmod	29	GPL-2.0-or-later License AND LGPL-2.1-or-later License
krb5	1.17.2	MIT License
lcms	2.13.1	MIT License
leven	3.1.0	<a href="#">MIT License</a>
levn	0.3.0	<a href="#">MIT License</a>
levn	0.4.1	<a href="#">MIT License</a>
libarchive	3.6.1	BSD 2-Clause License
libcap	2.63	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
libedit	20210910-3.1	BSD 3-Clause License
libepoxy	1.5.9	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
libffi	3.4.2	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

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libgcrypt	1.9.4	GPL-2.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
libglu	9.0.2	MIT License
libgpg-error	1.44	GPL-2.0-or-later License AND LGPL-2.1-or-later License
libice	1.0.10	MIT License
libidn2	2.3.2	(!GPL-2.0-or-later License OR LGPL-3.0-only License)) AND GPL-3.0-or-later License AND Unicode Data Files and Software License (2016)
libjpeg-turbo	2.1.3	BSD 3-Clause License
libldb	2.3.3	LGPL-3.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
libmcrypt	2.5.8	LGPL-2.1-only License
libnl	3.5.0	LGPL-2.1-only License
libnsl2	2.0.0	LGPL-2.1-only License
libpciaccess	0.16	MIT License AND MIT License AND
libpcre	8.45	BSD 3-Clause License
libpcre2	10.40	BSD 3-Clause License
libpng	1.6.37	libpng License
libqrencode	4.0.2	<a href="#">GNU Lesser General Public License v2.1</a>
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
libtinyxml	2.6.2	zlib 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

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liburcu	0.13.1	LGPL-2.1-or-later License AND MIT License
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	4.4.28	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
libxf86	6.0.0	MIT License
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	3.5.13	MIT License
libxrandr	1.5.2	MIT License
libxrender	0.9.10	MIT License

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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
libzip	1.7.3	<a href="#">BSD 3-clause "New" or "Revised" License</a>
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-amd License
linux-firmware-radeon	1.0	Firmware-amd License
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>
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>
log-symbols	4.1.0	<a href="#">MIT License</a>
lpkit-udev-common	1.0	MIT License
lru-cache	6.0.0	<a href="#">ISC License</a>
isof	4.94.0	Spencer-94 License
lttng-ust	2.13.3	LGPL-2.1-or-later License AND MIT License AND GPL-2.0-only License

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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>
makeerror	1.0.12	<a href="#">BSD 3-clause "New" or "Revised" License</a>
mbed TLS	3.1.0	<a href="#">Apache License 2.0</a>
mbed TLS	2.14.0	<a href="#">Apache License 2.0</a>
MD4 (RFC 1320) Message-Digest Algorithm	unspecific	<a href="#">MD4 license</a>
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
mhddfs	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>
minimist	1.2.6	<a href="#">MIT License</a>
minizip	2.10.1	<a href="#">zlib 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
musl-libc	1.1.16	MIT License
natural-compare	1.4.0	<a href="#">MIT License</a>
ncurses	6.3+20220423	MIT License
ncurses	6.3	MIT License
neo-async	2.6.2	<a href="#">MIT License</a>

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net-snmp	5.9.1	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
nghttp2	1.47.0	MIT License
nginx	1.20.1	BSD 2-Clause License
nghttp2	1.47.0	<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-addon-api	3.2.1	<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>
normalize-path	3.0.0	<a href="#">MIT License</a>
NotoSansUI- Bold	1.06	<a href="#">SIL Open Font License 1.1</a>
NotoSansUI-Bol- dItalic	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-run-path	4.0.1	<a href="#">MIT License</a>
nrwl/angular	13.9.4	<a href="#">MIT License</a>

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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-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	3.0.5	<a href="#">Apache License 2.0</a>
OpenSSL cryptographic library	3.0.0	<a href="#">Apache License 2.0</a>
optionator	0.8.3	<a href="#">MIT License</a>
optionator	0.9.1	<a href="#">MIT License</a>
ora	5.4.1	<a href="#">MIT License</a>
os-release	1.0	MIT License
p-limit	2.3.0	<a href="#">MIT License</a>
p-locate	4.1.0	<a href="#">MIT License</a>

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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
PCRE library	8.45	<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
phenomnomnominal/tsquery	4.1.1	<a href="#">MIT License</a>
php	8.1.12	PHP License v3.0
picocolors	1.0.0	<a href="#">ISC License</a>
picomatch	2.3.1	<a href="#">MIT License</a>
pirates	4.0.5	<a href="#">MIT License</a>
pixman	0.40.0	MIT License AND MIT License AND Public Domain
pkg-dir	4.2.0	<a href="#">MIT License</a>
Poco	1.11.0	<a href="#">Boost Software License 1.0</a>
POCO C++ libraries	1.11.0	<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-format	27.5.1	<a href="#">MIT License</a>
primeicons	4.1.0	<a href="#">MIT License</a>
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Public Domain JSON Parser for C	unspecific	<a href="#">The Unlicense</a>
punycode	2.1.1	<a href="#">MIT License</a>
pure-ftpd	1.0.47	BSD Zero Clause License
queue-microtask	1.2.3	<a href="#">MIT License</a>
randombytes	2.1.0	<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>
readable-stream	3.6.0	<a href="#">MIT License</a>
readdirp	3.6.0	<a href="#">MIT License</a>
readline	8.1.2	GPL-3.0-or-later License
regenerate	1.4.2	<a href="#">MIT License</a>
regenerate-unicode-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>
regxp-core	5.0.1	<a href="#">MIT License</a>
regjsen	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>
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>
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>

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rgb	1.0.6	MIT License
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>
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>
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RobotoMono-Light	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono-LightItalic	2.000986; 2015	<a href="#">Apache License 2.0</a>
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rpcbind	1.2.6	BSD 3-Clause License
rssh	2.3.4	BSD 2-Clause License
run-parallel	1.2.0	<a href="#">MIT License</a>
rxjs	6.6.7	<a href="#">Apache License 2.0</a>
rxjs	7.4.0	<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>

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samba	4.14.13	GPL-3.0-or-later License AND LGPL-3.0-or-later License AND GPL-2.0-or-later License
Samples for Win32 desktop apps using toast notifications	Git commit 99e0fd3628c58150cf75db8f75aaf4810212cf61 (2020-07-21)	<a href="#">MIT License</a>
saxes	5.0.1	<a href="#">ISC License</a>
schema-utils	2.7.0	<a href="#">MIT License</a>
schema-utils	3.1.1	<a href="#">MIT License</a>
schematics/ angular	13.2.6	<a href="#">MIT License</a>
semver	6.3.0	<a href="#">ISC License</a>
semver	7.0.0	<a href="#">ISC License</a>
semver	7.3.4	<a href="#">ISC License</a>
semver	7.3.5	<a href="#">ISC License</a>
serialize-javascript	6.0.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
set-blocking	2.0.0	<a href="#">ISC License</a>
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	<a href="#">MIT License</a>
shebang-command	2.0.0	<a href="#">MIT License</a>
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signal-exit	3.0.7	<a href="#">ISC License</a>
sinonjs/ commons	1.8.3	<a href="#">BSD 3-clause "New" or "Revised" License</a>
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slash	3.0.0	<a href="#">MIT License</a>
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source-map	0.5.7	<a href="#">BSD 3-clause "New" or "Revised" License</a>
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sprintf-js	1.0.3	<a href="#">BSD 3-clause "New" or "Revised" License</a>
SQLite	3.38.1	<a href="#">SQLITE Copyright Notice</a>
sqlite3	3.38.5	Public Domain
stack-utils	2.0.5	<a href="#">MIT License</a>
strace	5.16	LGPL-2.1-or-later License AND GPL-2.0-or-later License
string-length	4.0.2	<a href="#">MIT License</a>
string-width	4.2.3	<a href="#">MIT License</a>
string_decoder	1.3.0	<a href="#">MIT License</a>
strip-ansi	6.0.1	<a href="#">MIT License</a>
strip-bom	3.0.0	<a href="#">MIT License</a>
strip-bom	4.0.0	<a href="#">MIT License</a>
strip-final-new-line	2.0.0	<a href="#">MIT License</a>
strip-json-comments	3.1.1	<a href="#">MIT License</a>
supports-color	5.5.0	<a href="#">MIT License</a>
supports-color	7.2.0	<a href="#">MIT License</a>
supports-color	8.1.1	<a href="#">MIT License</a>
supports-hyperlinks	2.2.0	<a href="#">MIT License</a>
supports-preserve-symlinks-flag	1.0.0	<a href="#">MIT License</a>
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 License 2.0</a> AND <a href="#">MIT License</a>

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symbol-tree	3.2.4	<a href="#">MIT License</a>
sysstat	12.4.5	GPL-2.0-or-later License
tapable	1.1.3	<a href="#">MIT License</a>
tapable	2.2.1	<a href="#">MIT 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>
tiff	4.3.0	BSD 2-Clause License
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>
to-regexp-range	5.0.1	<a href="#">MIT License</a>
tootallnate/once	1.1.2	<a href="#">MIT License</a>
tough-cookie	4.0.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
tr46	2.1.0	<a href="#">MIT License</a>
Tray (cross platform tray icon library)	8dd1358b92562faf7c032cf5362fa97cbc7e13e9	<a href="#">MIT License</a>
ts-loader	9.2.8	<a href="#">MIT License</a>
ts-node	9.1.1	<a href="#">MIT License</a>
tsconfig-paths	3.14.1	<a href="#">MIT License</a>
tsconfig-paths-webpack-plugin	3.5.2	<a href="#">MIT License</a>
tslib	1.14.1	<a href="#">BSD Zero Clause License</a>
tslib	2.1.0	<a href="#">BSD Zero Clause License</a>
tslib	2.3.1	<a href="#">BSD Zero Clause License</a>
type-check	0.3.2	<a href="#">MIT License</a>
type-check	0.4.0	<a href="#">MIT License</a>
type-detect	4.0.8	<a href="#">MIT License</a>

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type-fest	0.20.2	<a href="#">MIT License</a> OR <a href="#">Creative Commons Zero v1.0 Universal</a>
type-fest	0.21.3	<a href="#">MIT License</a> OR <a href="#">Creative Commons Zero v1.0 Universal</a>
typedarray-to-buffer	3.1.5	<a href="#">MIT License</a>
types/babel__core	7.1.19	<a href="#">MIT License</a>
types/babel__generator	7.6.4	<a href="#">MIT License</a>
types/babel__template	7.4.1	<a href="#">MIT License</a>
types/babel__traverse	7.14.2	<a href="#">MIT License</a>
types/eslint	8.4.1	<a href="#">MIT License</a>
types/eslint-scope	3.7.3	<a href="#">MIT License</a>
types/estree	0.0.51	<a href="#">MIT License</a>
types/graceful-fs	4.1.5	<a href="#">MIT License</a>
types/istanbul-lib-coverage	2.0.4	<a href="#">MIT License</a>
types/istanbul-lib-report	3.0.0	<a href="#">MIT License</a>
types/istanbul-reports	3.0.1	<a href="#">MIT License</a>
types/json-schema	7.0.10	<a href="#">MIT License</a>
types/json5	0.0.29	<a href="#">MIT License</a>
types/modernizr	3.5.3	<a href="#">MIT License</a>
types/node	16.11.26	<a href="#">MIT License</a>
types/parse-json	4.0.0	<a href="#">MIT License</a>
types/prettier	2.4.4	<a href="#">MIT License</a>
types/stack-utils	2.0.1	<a href="#">MIT License</a>
types/trusted-types	2.0.2	<a href="#">MIT License</a>
types/uuid	3.4.10	<a href="#">MIT License</a>
types/yargs	16.0.4	<a href="#">MIT License</a>
types/yargs-parser	21.0.0	<a href="#">MIT License</a>

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tzdata	2022a	Public Domain AND BSD 3-Clause License
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unicode-canonical-property-names-ecmascript	2.0.0	<a href="#">MIT License</a>
unicode-match-property-ecmascript	2.0.0	<a href="#">MIT License</a>
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unicode-property-aliases-ecmascript	2.0.0	<a href="#">MIT License</a>
universalify	0.1.2	<a href="#">MIT License</a>
universalify	2.0.0	<a href="#">MIT License</a>
uri-js	4.4.1	<a href="#">BSD 2-clause "Simplified" License</a>
util-deprecate	1.0.2	<a href="#">MIT License</a>
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
v8-compile-cache	2.3.0	<a href="#">MIT License</a>
v8-to-istanbul	8.1.1	<a href="#">ISC License</a>
w3c-hr-time	1.0.2	<a href="#">MIT License</a>
w3c-xmlserializer	2.0.0	<a href="#">MIT License</a>
walker	1.0.8	<a href="#">Apache License 2.0</a>
watchpack	2.3.1	<a href="#">MIT License</a>
wcwidth	1.0.1	<a href="#">MIT License</a>
webassemblyjs/ast	1.11.1	<a href="#">MIT License</a>
webassemblyjs/floating-point-hex-parser	1.11.1	<a href="#">MIT License</a>

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webassemblyjs/ helper-api-error	1.11.1	<a href="#">MIT License</a>
webassemblyjs/ helper-buffer	1.11.1	<a href="#">MIT License</a>
webassemblyjs/ helper-numbers	1.11.1	<a href="#">MIT License</a>
webassemblyjs/ helper-wasm- bytecode	1.11.1	<a href="#">MIT License</a>
webassemblyjs/ helper-wasm- section	1.11.1	<a href="#">MIT License</a>
webassemblyjs/ ieee754	1.11.1	<a href="#">MIT License</a>
webassemblyjs/ leb128	1.11.1	<a href="#">Apache License 2.0</a>
webassemblyjs/ utf8	1.11.1	<a href="#">MIT License</a>
webassemblyjs/ wasm-edit	1.11.1	<a href="#">MIT License</a>
webassemblyjs/ wasm-gen	1.11.1	<a href="#">MIT License</a>
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webassemblyjs/ wasm-parser	1.11.1	<a href="#">MIT License</a>
webassemblyjs/ wast-printer	1.11.1	<a href="#">MIT License</a>
webidl-conver- sions	5.0.0	<a href="#">BSD 2-clause "Simplified" License</a>
webidl-conver- sions	6.1.0	<a href="#">BSD 2-clause "Simplified" License</a>
webpack	5.70.0	<a href="#">MIT License</a>
webpack-merge	5.7.3	<a href="#">MIT License</a>
webpack-node- externals	3.0.0	<a href="#">MIT License</a>
webpack-sour- ces	3.2.3	<a href="#">MIT License</a>
whatwg-encod- ing	1.0.5	<a href="#">MIT License</a>
whatwg-mime- type	2.3.0	<a href="#">MIT License</a>
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wildcard	2.0.0	<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>
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	GPL-2.0-or-later License
xauth	1.1.1	MIT License
xcb-util	0.4.0	MIT License
xcb-util-image	0.4.0	MIT License
xcb-util-keysyms	0.4.0	MIT License
xcb-util-renderutil	0.3.9	MIT License
xcb-util-wm	0.4.1	MIT License
xerces-c	3.2.3	<a href="#">Apache License 2.0</a>
xf86-input-evdev	2.10.6	MIT License
xf86-input-keyboard	1.9.0	MIT License
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xf86-video-amd	gitAUTOINC+533bd30cea	MIT License
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xf86-video-vbox	gitAUTOINC+4f3a2bea25	MIT License
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xkbcomp	1.4.5	MIT License
xkeyboard-config	2.35.1	MIT License AND MIT License AND

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xmlchars	2.2.0	<a href="#">MIT License</a>
xorg-minimal-fonts	1.0	Public Domain
xrandr	1.5.1	MIT License
xserver-xf86-config	0.1	MIT License
xserver-xorg	21.1.4	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	5.2.5	<a href="#">GNU General Public License v2.0</a> or later AND <a href="#">GNU General Public License v3.0</a> WITH <a href="#">Autoconf exception 3.0</a> AND <a href="#">GNU Lesser General Public License v2.1</a> or later AND Public Domain
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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>
yn	3.1.1	<a href="#">MIT License</a>
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zone.js	0.11.5	<a href="#">MIT License</a>
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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

MD5 (RFC 1321) Message-Digest Algorithm is derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm

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Version 3.1, 31 March 2009

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Version 2.1, February 1999

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Version 3, 29 June 2007

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MD4 (RFC-1320) message digest.

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

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

"A generic solution to polygon clipping"

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

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

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

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

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences

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

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tao\_tuple

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[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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software



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Wayland Fullscreen Shell Protocol

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Android Explicit Synchronization

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ANGLE array bounds clumper from WebKit

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ARCore SDK

Project Homepage: <https://github.com/google-ar/arcore-android-sdk>

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ARCore SDK client library for Chrome

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Chrome Custom Tabs - Example and Usage

Project Homepage:<https://chromium.googlesource.com/external/github.com/GoogleChrome/custom-tabs-client>

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Chromium OS system API

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

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Cocoa extension code from Camino

Project Homepage: <http://caminobrowser.org/>

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Compact Encoding Detection

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

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CRC32C

Project Homepage: <https://github.com/google/crc32c>

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d3

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Dawn

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dom-distiller-js

Project Homepage: <https://github.com/chromium/dom-distiller>

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Emoji Segmenter

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FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to v  
 FFmpeg to the GPL v3. ### Incompatible libraries There are certain libraries you can combine v  
 whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these l  
 in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure  
 the resulting binary to be unredistributable. The Fraunhofer FDK AAC and OpenSSL libraries are  
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MPEG-4 VIDEO CODEC Conversion from gcc syntax to x264asm syntax with modifications by Christophe
Gisquet <christophe.gisquet@gmail.com> ===== SSE2 inverse discrete cosine transfor
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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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GifPlayer Animated GIF Library

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Google Double Conversion

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

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Following applies to: ./test/mapstaticmethods.cpp ./test/schur\_real.cpp ./test/prec\_inverse\_4x4.cpp ./test/smallvectors.cpp ./test/redux.cpp ./test/special\_numbers.cpp ./test/adjoint.cpp ./test/./test/mixingtypes.cpp ./test/product\_trmv.cpp ./test/sparse\_solvers.cpp ./test/cholesky.cpp ./test/./test/geo\_quaternion.cpp ./test/miscmatrices.cpp ./test/./test/stddeque.cpp ./test/integer\_types.cpp ./test/product\_large.cpp ./test/eigensolver\_generalized\_real.cpp ./test/householder.cpp ./test/geo\_orthomethods.cpp ./test/array\_for\_matrix.cpp ./test/sparseL.cpp ./test/upperbidiagonalization.cpp ./test/nomalloc.cpp ./test/packetmath.cpp ./test/jacobisvd.cpp ./test/./test/geo\_transformations.cpp ./test/swap.cpp ./test/eigensolver\_selfadjoint.cpp ./test/inverse.cpp ./test/product\_selfadjoint.cpp ./test/product\_trsolve.cpp ./test/product\_extra.cpp ./test/sparseL.cpp ./test/mapstride.cpp ./test/mapped\_matrix.cpp ./test/geo\_eulerangles.cpp ./test/eigen2support.cpp ./test/denseLM.cpp ./test/stdvector.cpp ./test/nesting\_ops.cpp ./test/sparse\_permutations.cpp ./test/./test/zerosized.cpp ./test/exceptions.cpp ./test/vectorwiseop.cpp ./test/cwiseop.cpp ./test/./test/product\_trmm.cpp ./test/linearstructure.cpp ./test/sparse\_product.cpp ./test/stdvector.cpp ./test/stable\_norm.cpp ./test/umeyama.cpp ./test/unalignedcount.cpp ./test/triangular.cpp ./test/product\_mmtr.cpp ./test/sparse\_basic.cpp ./test/sparse\_vector.cpp ./test/meta.cpp ./test/./test/ref.cpp ./test/eigensolver\_complex.cpp ./test/cholmod\_support.cpp ./test/conjugate\_gradient.cpp ./test/sparse.h ./test/simplicial\_cholesky.cpp ./test/bicgstab.cpp ./test/dynalloc.cpp ./test/product\_notemporary.cpp ./test/geo\_hyperplane.cpp ./test/lu.cpp ./test/qr.cpp ./test/hessenberg.cpp ./test/sizeof.cpp ./test/selfadjoint.cpp ./test/permutationmatrices.cpp ./test/superlu\_support.cpp ./test/qtvector.cpp ./test/geo\_homogeneous.cpp ./test/determinant.cpp ./test/array\_reverse.cpp ./test/unalignedassert.cpp ./test/stdlist.cpp ./test/product\_symm.cpp ./test/corners.cpp ./test/dontalign.cpp ./test/visitors.cpp ./test/geo\_alignedbox.cpp ./test/diagonalmatrices.cpp ./test/product\_small.cpp ./test/eigensolver\_generalized\_real.cpp ./test/umfpack\_support.cpp ./test/first\_aligned.cpp ./test/qr\_fullpivoting.cpp ./test/array\_replicate.cpp ./test/geo\_parametrizedline.cpp ./test/eigen2/eigen2\_unalignedassert.cpp ./test/eigen2/eigen2\_prec\_inverse\_4x4.cpp ./test/eigen2/eigen2\_alignedbox.cpp ./test/eigen2/eigen2\_sparse\_product.cpp ./test/eigen2/eigen2\_nomalloc.cpp ./test/eigen2/eigen2\_visitor.cpp ./test/eigen2/eigen2\_packetmath.cpp



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./test/eigen2/eigen2_cwiseop.cpp ./test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp
./test/eigen2/eigen2_smallvectors.cpp ./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_sparse_solvers.cpp ./test/eigen2/eigen2_hyperplane.cpp
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./test/nullary.cpp ./test/bandmatrix.cpp ./test/pastix_support.cpp ./test/product.h ./test/bl
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./unsupported/Eigen/src/SparseExtra/BlockOfDynamicSparseMatrix.h
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./unsupported/Eigen/src/NonLinearOptimization/LevenbergMarquardt.h

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./unsupported/Eigen/src/AutoDiff/AutoDiffScalar.h ./unsupported/Eigen/src/AutoDiff/AutoDiffJac
./unsupported/Eigen/src/AutoDiff/AutoDiffVector.h ./unsupported/Eigen/src/Splines/Spline.h
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./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h
./unsupported/Eigen/src/FFT/ei_fftw_impl.h ./unsupported/Eigen/src/FFT/ei_kissfft_impl.h
./unsupported/Eigen/src/Polynomials/PolynomialSolver.h ./unsupported/Eigen/src/Polynomials/Cor
./unsupported/Eigen/src/Polynomials/PolynomialUtils.h
./unsupported/Eigen/src/NumericalDiff/NumericalDiff.h ./unsupported/Eigen/src/Skyline/Skyline
./unsupported/Eigen/src/Skyline/SkylineMatrixBase.h ./unsupported/Eigen/src/Skyline/SkylineSto
./unsupported/Eigen/src/Skyline/SkylineUtil.h ./unsupported/Eigen/src/Skyline/SkylineInplaceL
./unsupported/Eigen/src/Skyline/SkylineMatrix.h ./unsupported/Eigen/SparseExtra
./unsupported/Eigen/AdolcForward ./unsupported/Eigen/KroneckerProduct
./unsupported/Eigen/NonLinearOptimization ./unsupported/Eigen/BVH ./unsupported/Eigen/OpenGLSt
./unsupported/Eigen/ArpackSupport ./unsupported/Eigen/AutoDiff ./unsupported/Eigen/Splines
./unsupported/Eigen/MPRealSupport ./unsupported/Eigen/MatrixFunctions
./unsupported/Eigen/MoreVectorization ./unsupported/Eigen/LevenbergMarquardt
./unsupported/Eigen/AlignedVector3 ./unsupported/Eigen/FFT ./unsupported/Eigen/Polynomials
./unsupported/Eigen/NumericalDiff ./unsupported/Eigen/Skyline ./COPYING.README ./COPYING.README
./LICENSE ./LICENSE ./LICENSE ./Eigen/Eigen2Support ./Eigen/src/Eigen2Support/VectorBlock.h
./Eigen/src/Eigen2Support/Cwise.h ./Eigen/src/Eigen2Support/Minor.h
./Eigen/src/Eigen2Support/Lazy.h ./Eigen/src/Eigen2Support/Memory.h
./Eigen/src/Eigen2Support/MathFunctions.h ./Eigen/src/Eigen2Support/Geometry/AlignedBox.h
./Eigen/src/Eigen2Support/Geometry/Hyperplane.h ./Eigen/src/Eigen2Support/Geometry/Quaternion
./Eigen/src/Eigen2Support/Geometry/Rotation2D.h ./Eigen/src/Eigen2Support/Geometry/Parametriz
./Eigen/src/Eigen2Support/Geometry/RotationBase.h ./Eigen/src/Eigen2Support/Geometry/Translat
./Eigen/src/Eigen2Support/Geometry/Scaling.h ./Eigen/src/Eigen2Support/Geometry/AngleAxis.h
./Eigen/src/Eigen2Support/Geometry/Transform.h ./Eigen/src/Eigen2Support/TriangularSolver.h
./Eigen/src/Eigen2Support/LU.h ./Eigen/src/Eigen2Support/QR.h ./Eigen/src/Eigen2Support/SVD.h
./Eigen/src/Eigen2Support/Meta.h ./Eigen/src/Eigen2Support/Block.h ./Eigen/src/Eigen2Support/I
./Eigen/src/Eigen2Support/LeastSquares.h ./Eigen/src/Eigen2Support/CwiseOperators.h
./Eigen/src/Jacobi/Jacobi.h ./Eigen/src/misc/Kernel.h ./Eigen/src/misc/SparseSolve.h ./Eigen/s
./Eigen/src/misc/Image.h ./Eigen/src/SparseCore/SparseColEtree.h
./Eigen/src/SparseCore/SparseTranspose.h ./Eigen/src/SparseCore/SparseUtil.h
./Eigen/src/SparseCore/SparseCwiseBinaryOp.h ./Eigen/src/SparseCore/SparseDiagonalProduct.h
./Eigen/src/SparseCore/SparseProduct.h ./Eigen/src/SparseCore/SparseDot.h
./Eigen/src/SparseCore/SparseCwiseUnaryOp.h ./Eigen/src/SparseCore/SparseSparseProductWithPrun
./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/ConservativeSparseSparseProduct.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/StdMap.h
./Eigen/src/SparseQR/SparseQR.h ./Eigen/src/LU/Inverse.h ./Eigen/src/LU/arch/Inverse_SSE.h
./Eigen/src/LU/Determinant.h ./Eigen/src/LU/PartialPivLU.h ./Eigen/src/LU/FullPivLU.h
./Eigen/src/UmfPackSupport/UmfPackSupport.h ./Eigen/src/OrderingMethods/Ordering.h
./Eigen/src/OrderingMethods/Eigen_Colamd.h ./Eigen/src/QR/HouseholderQR.h
./Eigen/src/QR/ColPivHouseholderQR.h ./Eigen/src/QR/FullPivHouseholderQR.h
./Eigen/src/SVD/JacobiSVD.h ./Eigen/src/SVD/UpperBidiagonalization.h
./Eigen/src/Geometry/OrthoMethods.h ./Eigen/src/Geometry/AlignedBox.h
./Eigen/src/Geometry/Hyperplane.h ./Eigen/src/Geometry/Quaternion.h ./Eigen/src/Geometry/EulerAngles.h
./Eigen/src/Geometry/Rotation2D.h ./Eigen/src/Geometry/ParametrizedLine.h
./Eigen/src/Geometry/RotationBase.h ./Eigen/src/Geometry/arch/Geometry_SSE.h
./Eigen/src/Geometry/Umeyama.h ./Eigen/src/Geometry/Homogeneous.h ./Eigen/src/Geometry/Transform.h
./Eigen/src/Geometry/Scaling.h ./Eigen/src/Geometry/AngleAxis.h ./Eigen/src/Geometry/Transform3.h
./Eigen/src/plugins/BlockMethods.h ./Eigen/src/plugins/CommonCwiseUnaryOps.h
./Eigen/src/plugins/CommonCwiseBinaryOps.h ./Eigen/src/plugins/MatrixCwiseUnaryOps.h
./Eigen/src/plugins/MatrixCwiseBinaryOps.h ./Eigen/src/Householder/Householder.h
./Eigen/src/Householder/HouseholderSequence.h ./Eigen/src/Householder/BlockHouseholder.h
./Eigen/src/Core/VectorBlock.h ./Eigen/src/Core/Matrix.h ./Eigen/src/Core/Ref.h
./Eigen/src/Core/SelfAdjointView.h ./Eigen/src/Core/MathFunctions.h
./Eigen/src/Core/GlobalFunctions.h ./Eigen/src/Core/MapBase.h ./Eigen/src/Core/EigenBase.h
./Eigen/src/Core/GenericPacketMath.h ./Eigen/src/Core/NestByValue.h ./Eigen/src/Core/CwiseUnaryOps.h
./Eigen/src/Core/SolveTriangular.h ./Eigen/src/Core/Fuzzy.h ./Eigen/src/Core/Visitor.h
./Eigen/src/Core/Map.h ./Eigen/src/Core/NoAlias.h ./Eigen/src/Core/Diagonal.h
./Eigen/src/Core/StableNorm.h ./Eigen/src/Core/CoreIterators.h ./Eigen/src/Core/products/ParallelTiledMatrixVector.h
./Eigen/src/Core/products/SelfadjointMatrixVector.h
./Eigen/src/Core/products/GeneralMatrixMatrixTriangular.h
./Eigen/src/Core/products/TriangularSolverMatrix.h ./Eigen/src/Core/products/GeneralMatrixMatrix.h
./Eigen/src/Core/products/SelfadjointProduct.h ./Eigen/src/Core/products/CoeffBasedProduct.h
./Eigen/src/Core/products/TriangularMatrixVector.h ./Eigen/src/Core/products/SelfadjointMatrixMatrix.h
./Eigen/src/Core/products/TriangularSolverVector.h ./Eigen/src/Core/products/SelfadjointRank2Update.h
./Eigen/src/Core/products/GeneralBlockPanelKernel.h ./Eigen/src/Core/products/GeneralMatrixVector.h
./Eigen/src/Core/products/TriangularMatrixMatrix.h ./Eigen/src/Core/Reverse.h
./Eigen/src/Core/BooleanRedux.h ./Eigen/src/Core/Replicate.h ./Eigen/src/Core/arch/AltivecPacket.h
./Eigen/src/Core/arch/Altivec/Complex.h ./Eigen/src/Core/arch/SSE/PacketMath.h
./Eigen/src/Core/arch/SSE/Complex.h ./Eigen/src/Core/arch/SSE/MathFunctions.h
./Eigen/src/Core/arch/NEON/PacketMath.h ./Eigen/src/Core/arch/NEON/Complex.h
./Eigen/src/Core/arch/Default/Settings.h ./Eigen/src/Core/CwiseUnaryView.h ./Eigen/src/Core/Array.h
./Eigen/src/Core/ArrayWrapper.h ./Eigen/src/Core/Swap.h ./Eigen/src/Core/Transpositions.h

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./Eigen/src/Core/Random.h ./Eigen/src/Core/IO.h ./Eigen/src/Core/SelfCwiseBinaryOp.h
./Eigen/src/Core/VectorwiseOp.h ./Eigen/src/Core/Select.h ./Eigen/src/Core/ArrayBase.h
./Eigen/src/Core/DenseCoeffsBase.h ./Eigen/src/Core/DiagonalProduct.h ./Eigen/src/Core/Assign
./Eigen/src/Core/Redux.h ./Eigen/src/Core/ForceAlignedAccess.h
./Eigen/src/Core/BandMatrix.h ./Eigen/src/Core/PlainObjectBase.h ./Eigen/src/Core/DenseBase.h
./Eigen/src/Core/Flagged.h ./Eigen/src/Core/CwiseBinaryOp.h ./Eigen/src/Core/ProductBase.h
./Eigen/src/Core/TriangularMatrix.h ./Eigen/src/Core/Transpose.h ./Eigen/src/Core/DiagonalMat
./Eigen/src/Core/Dot.h ./Eigen/src/Core/Functors.h ./Eigen/src/Core/PermutationMatrix.h
./Eigen/src/Core/NumTraits.h ./Eigen/src/Core/MatrixBase.h ./Eigen/src/Core/DenseStorage.h
./Eigen/src/Core/util/Memory.h ./Eigen/src/Core/util/StaticAssert.h ./Eigen/src/Core/util/Blas
./Eigen/src/Core/util/MatrixMapper.h ./Eigen/src/Core/util/XprHelper.h
./Eigen/src/Core/util/ForwardDeclarations.h ./Eigen/src/Core/util/Meta.h ./Eigen/src/Core/uti
./Eigen/src/Core/util/Constants.h ./Eigen/src/Core/CwiseNullaryOp.h ./Eigen/src/Core/Block.h
./Eigen/src/Core/GeneralProduct.h ./Eigen/src/Core/CommaInitializer.h ./Eigen/src/Core/Return
./Eigen/src/Core/Stride.h ./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
./Eigen/src/SparseLU/SparseLU_column_dfs.h ./Eigen/src/SparseLU/SparseLU_panel_dfs.h
./Eigen/src/SparseLU/SparseLU_relax_snode.h ./Eigen/src/SparseLU/SparseLU_panel_bmod.h
./Eigen/src/SparseLU/SparseLU_SupernodalMatrix.h ./Eigen/src/SparseLU/SparseLU_Utils.h
./Eigen/src/SparseLU/SparseLU_gemm_kernel.h ./Eigen/src/SparseLU/SparseLU_kernel_bmod.h
./Eigen/src/SparseLU/SparseLU_pivotL.h ./Eigen/src/SparseLU/SparseLU_Memory.h
./Eigen/src/SparseLU/SparseLU_heap_relax_snode.h ./Eigen/src/SparseLU/SparseLUImpl.h
./Eigen/src/SparseLU/SparseLU_copy_to_ucol.h ./Eigen/src/SparseLU/SparseLU_Structs.h
./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
./Eigen/src/IterativeLinearSolvers/IterativeSolverBase.h
./Eigen/src/IterativeLinearSolvers/ConjugateGradient.h ./Eigen/src/IterativeLinearSolvers/BiC
./Eigen/src/SparseCholesky/SimplicialCholesky.h ./Eigen/src/Cholesky/LDLT.h
./Eigen/src/Cholesky/LLT.h ./Eigen/src/CholmodSupport/CholmodSupport.h
./Eigen/src/PaStiXSupport/PaStiXSupport.h ./Eigen/src/MetisSupport/MetisSupport.h ./Eigen/StdV
./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/comple
./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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IAccessible2 COM interfaces for accessibility

Project Homepage: <https://github.com/LinuxAlly/IAccessible2>

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jsoncpp

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libprotobuf-mutator

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libudev

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libyuv

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linux-syscall-support

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OTS (OpenType Sanitizer)

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#### Protocol Buffers

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

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#### pyjson5

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

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pywebsocket3

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

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Quick Color Management System

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re2 - an efficient, principled regular expression library

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simplejson

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six

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SMHasher

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Snappy: A fast compressor/decompressor

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SPIR-V Headers

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usrstcp

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v4l-utils

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V8 JavaScript Engine

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valgrind

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WDS

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Weston - reference Wayland compositor

Project Homepage: <https://gitlab.freedesktop.org/wayland/weston>

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woff2

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WuFFs (Wrangling Untrusted File Formats Safely)

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xdg-mime

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xdg-utils

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yasm

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

```
#ifndef fooaddressshfoo
#define fooaddressshfoo
```

```
/**
```

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```
***/
```

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

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

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

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

```

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****/

#include "rr.h"

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

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#ifdef HAVE_CONFIG_H
#include <config.h>

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

```



```

=====

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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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```
<one line to give the program's name and a brief idea of what it does.>
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```

```
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(at your option) any later version.
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```
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under certain conditions; type `show c' for details.
```

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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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=====
```

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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.

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

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```
=====
binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
cifs-utils-6.14: COPYING
dosfstools-4.2: COPYING
elfutils-0.186: COPYING
gcc-runtime-11.3.0: COPYING3
gdb-11.2: COPYING3
gmp-6.2.1: COPYING
grub-2.06: COPYING
grub-2.04+2.06~rc1: COPYING
haveged-1.9.18: COPYING
libgcc-11.3.0: COPYING3
mhdfs-0.1.39+git: LICENSE
readline-8.1.2: COPYING
samba-4.14.13: COPYING
xz-5.2.5: COPYING.GPLv3
```



=====

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```
=====
binutils-2.38: COPYING3.LIB
gcc-runtime-11.3.0: COPYING3.LIB
gdb-11.2: COPYING3.LIB
gmp-6.2.1: COPYING.LESSERv3
libgcc-11.3.0: COPYING3.LIB
libunistring-1.0: COPYING.LIB
nettle-3.7.3: COPYING.LESSERv3
=====
```

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

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

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```
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
=====
busybox-1.35.0: archival/libarchive/bz/LICENSE
=====
```

```
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of bzip2 version 1.0.4. bzip2 source is distributed
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=====
```

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

```
=====
busybox-inittab-1.35.0: sources/poky/meta/files/common-licenses/GPL-2.0-only
=====
```

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=====  
bzip2-1.0.8: LICENSE, 4-40  
=====

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

```
=====
cpprest-2.10.18: license.txt
=====
```

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```
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```

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```
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```

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

```

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xz-5.2.5: COPYING.GPLv2
=====

```

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```

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```
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This is free software, and you are welcome to redistribute it
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```

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```
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```

```
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```

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```
=====
dropbear-2020.81: LICENSE
=====
```

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====

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loginrec.h  
atomicio.h  
atomicio.c  
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Theodore Ts'o

23-June-2007

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```

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

That's all there is to it!

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

```

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

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

/*
 * e2p.h --- header file for the e2p library
 *
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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
=====

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 *
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=====
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```

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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
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* 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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when it starts in an interactive mode:

```
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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  
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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:

```
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```

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

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```
=====
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 */
/*-
 * Copyright (c) 2004-2009, Jilles Tjoelker
```

```

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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 Krahmer <krahmer@suse.de> original netlink handling
* stolen from an proc-connector example, copyright follows:
*/
/* Copyright (C) Matt Helsley, IBM Corp. 2005
* Derived from fcctl.c by Guillaume Thouvenin
* Original copyright notice follows:
*
* Copyright (C) 2005 BULL SA.
* Written by Guillaume Thouvenin <guillaume.thouvenin@bull.net>
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* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
*/

```

```

=====
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-*-*-*-*-*jix0208.1983-0
a14           -misc-fixed-medium-r-normal--14-*-*-*-*-*iso8859-1
r14           -misc-fixed-medium-r-normal--14-*-*-*-*-*jix0201.1976-0
rk14          -misc-fixed-medium-r-normal--14-*-*-*-*-*jix0201.1976-0
r16           -sony-fixed-medium-r-normal--16-*-*-*-*-*jix0201.1976-0
rk16          -sony-fixed-medium-r-normal--16-*-*-*-*-*jix0201.1976-0
r24           -sony-fixed-medium-r-normal--24-*-*-*-*-*jix0201.1976-0
rk24          -sony-fixed-medium-r-normal--24-*-*-*-*-*jix0201.1976-0
kana14        -misc-fixed-medium-r-normal--14-*-*-*-*-*jix0201.1976-0
8x16kana      -sony-fixed-medium-r-normal--16-120-100-100-c-80-jix0201.1976-0
8x16romankana -sony-fixed-medium-r-normal--16-120-100-100-c-80-jix0201.1976-0
12x24kana     -sony-fixed-medium-r-normal--24-170-100-100-c-120-jix0201.1976-0
12x24romankana -sony-fixed-medium-r-normal--24-170-100-100-c-120-jix0201.1976-0
kanji16       -jis-fixed-medium-r-normal--16-*-*-*-*-*jix0208.1983-0
kanji24       -jis-fixed-medium-r-normal--24-*-*-*-*-*jix0208.1983-0

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: src/fcftretype.c, 1-45
=====
```

```
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*/
```

```
/*
```

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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.
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* 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.
*/
```

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

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

```
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Version 3, 29 June 2007

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hdparm-9.63: wiper/wiper.sh, 7-31
=====
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icu-70.1: LICENSE
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in  
 "src/lib/gssapi", including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

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

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

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.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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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.

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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.

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libglu-9.0.2: include/GL/glu.h, 1-29
libglu-9.0.2: src/libtess/tess.c, 1-29
=====
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libgpg-error-1.44: src/gpg-error.h.in, 2-18
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```
=====
libidn2-2.3.2: src/idn2.c, 1-16
=====
```

```

/* idn2.c - command line interface to libidn2
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*/

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

/* idn2.h - header file for idn2
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*/
=====

```

```
libjpeg-turbo-2.1.3: cdjpeg.h, 1-13
```

```
=====
```

```
/*
 * cdjpeg.h
 *
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 * file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
```

```
=====
```

```
libjpeg-turbo-2.1.3: 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-2.1.3: djpeg.c, 1-11
```

```
=====
```

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

```
=====
libldb-2.3.3: pyldb.h, 1-24
=====
```

```
/*
```

```
    Unix SMB/CIFS implementation.
```

```
    Python interface to ldb.
```

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

```
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```

```
*/
```

```
=====
libldb-2.3.3: man/ldb.3.xml, 261-262
=====
```

```
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```

```
=====
libldb-2.3.3: tools/ldbdump.c, 1-19
=====
```

```
/*
```

```
    Unix SMB/CIFS implementation.
```

```
    simple ldb tdb dump util
```

```
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```

```
    Copyright (C) Andrew Bartlett                2012
```

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```
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```
=====
libpcre-8.45: LICENCE
=====
```

```
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-----
```

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

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

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

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```
=====
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 */
```

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

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

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```

```
*/
```

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

```
/*
```

```
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Samba utility functions
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```

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

```
/*
```

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

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```

```
*/
```

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

```

=====

#ifndef __TDB_H__
#define __TDB_H__

/*
   Unix SMB/CIFS implementation.

   trivial database library

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*/

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

/*
   Unix SMB/CIFS implementation.

   generalised event loop handling

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```

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\*/

```
=====
libtinyxml-2.6.2: readme.txt
=====
```

```
/** @mainpage
```

```
<h1> TinyXML </h1>
```

TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

```
<h2> What it does. </h2>
```

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to read spec is at <http://www.w3.org/TR/2004/REC-xml-20040204/>. An intro to XML (that I really like) can be found at <http://skew.org/xml/tutorial/>.

There are different ways to access and interact with XML data. TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go.

There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license, so you can use it in open source or commercial code. The details of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out [www.sourceforge.org](http://www.sourceforge.org), search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

```
@verbatim
    <!DOCTYPE Archiv [
        <!ELEMENT Comment (#PCDATA)>
    ]>
@endverbatim
```

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site ([www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.



## <h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

```
<ul>
<li> <b>TinyXPath</b> (http://tinyxpath.sourceforge.net). TinyXPath is a small
footprint
    XPath syntax decoder, written in C++.</li>
<li> <b>TinyXML++</b> (http://code.google.com/p/ticpp/). TinyXML++ is a
completely new
    interface to TinyXML that uses MANY of the C++ strengths. Templates,
    exceptions, and much better error handling.</li>
</ul>
```

## <h2> Features </h2>

### <h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the `std::string` class, and fully supports `std::istream`, `std::ostream`, `operator<<`, and `operator>>`. Many API methods have both `'const char*'` and `'const std::string&'` forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the `'const char*'` form for input.

Use the compile time `#define`:

```
TIXML_USE_STL
```

to compile one version or the other. This can be passed by the compiler, or set as the first line of `"tinyxml.h"`.

Note: If compiling the test code in Linux, setting the environment variable `TINYXML_USE_STL=YES/NO` will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line `"#define TIXML_USE_STL"` as the first line of `tinyxml.h`.

### <h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of `TIXML_DEFAULT_ENCODING` in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

```
<ol>
  <li> If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf)
    begin the file or data stream, TinyXML will read it as UTF-8. </li>
  <li> If the declaration tag is read, and it has an encoding="UTF-8", then
    TinyXML will read it as UTF-8. </li>
  <li> If the declaration tag is read, and it has no encoding specified, then
    TinyXML will
      read it as UTF-8. </li>
  <li> If the declaration tag is read, and it has an encoding="something else",
    then TinyXML
      will read it as Legacy Mode. In legacy mode, TinyXML will work as it did
    before. It's
      not clear what that mode does exactly, but old content should keep working.</li>
  <li> Until one of the above criteria is met, TinyXML runs in Legacy Mode.</li>
</ol>
```

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using `LoadFile( TIXML_ENCODING_LEGACY )` or `LoadFile( filename, TIXML_ENCODING_LEGACY )`. You may force it to use legacy mode all the time by setting `TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY`. Likewise, you may force it to `TIXML_ENCODING_UTF8` with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode! TinyXML does not use or directly support `wchar`, `TCHAR`, or Microsoft's `_UNICODE` at this time.

It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML. A good text editor can import SHIFT-JIS and then save as UTF-8.

The `<a href="http://skew.org/xml/tutorial/">Skew.org link</a>` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that `Print()` or `printf()` cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

### <h3> Entities </h3>

TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

```
@verbatim
    &amp;    &
    &lt;     <
    &gt;     >
    &quot;    "
    &apos;   '
@endverbatim
```

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```
@verbatim
    Far &amp; Away
@endverbatim
```

will have the `Value()` of "Far & Away" when queried from the `TiXmlText` object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point: The syntax `"&#xA0;"` or `"&#160;"` are both to the non-breaking space character.

### <h3> Printing </h3>

TinyXML can print output in several different ways that all have strengths and limitations.

- `Print( FILE* )`. Output to a std-C stream, which includes all C files as well as `stdout`.
  - "Pretty prints", but you don't have control over printing options.
  - The output is streamed directly to the `FILE` object, so there is no memory

overhead

- in the TinyXML code.
- used by Print() and SaveFile()

- operator<<. Output to a c++ stream.

- Integrates with standart C++ iostreams.
- Outputs in "network printing" mode without line breaks. Good for network transmission
- and moving XML between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.

- API is less concise
- Future printing options will be put here.
- Printing may change slightly in future versions as it is refined and expanded.

### <h3> Streams </h3>

With TIXML\_USE\_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE\*) streams. There are some differences that you may need to be aware of.

#### C style output:

- based on FILE\*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

#### C style input:

- based on FILE\*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

#### C++ style output:

- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

#### C++ style input:

- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost

certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

### <h3> White space </h3>

The world simply does not agree on whether white space should be kept, or condensed. For example, pretend the '\_' is a space, and look at "Hello\_\_world". HTML, and at least some XML parsers, will interpret this as "Hello\_world". They condense white space. Some XML parsers do not, and will leave it as "Hello\_\_world". (Remember to keep pretending the \_ is a space.) Others suggest that \_\_Hello\_\_world\_\_ should become  
Hello\_\_world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace( bool ) to set the desired behavior.

The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace( bool ) before making any calls to Parse XML data, and I don't recommend changing it after it has been set.

### <h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

```
@verbatim
TiXmlElement* root = document.FirstChildElement( "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
        TiXmlElement* child = element->FirstChildElement( "Child" );
        if ( child )
        {
            TiXmlElement* child2 = child->NextSiblingElement( "Child" );
            if ( child2 )
            {
                // Finally do something useful.
            }
        }
    }
}
@endverbatim
```

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

```

@verbatim
TiXmlHandle docHandle( &document );
TiXmlElement* child2 = docHandle.FirstChild( "Document" ).FirstChild( "Element"
).Child( "Child", 1 ).ToElement();
if ( child2 )
{
    // do something useful
}
@endverbatim

```

Which is much easier to deal with. See `TiXmlHandle` for more information.

### <h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can track the row and column origin of all nodes and attributes in a text file. The `TiXmlBase::Row()` and `TiXmlBase::Column()` methods return the origin of the node in the source text. The correct tabs can be configured in `TiXmlDocument::SetTabSize()`.

## <h2> Using and Installing </h2>

To Compile and Run `xmltest`:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file `demotest.xml` to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

### <h3>Windows project file for VC6</h3>

```

<ul>
<li>tinyxml:      tinyxml library, non-STL </li>
<li>tinyxmlSTL:   tinyxml library, STL </li>
<li>tinyXmlTest:  test app, non-STL </li>
<li>tinyXmlTestSTL: test app, STL </li>
</ul>

```

### <h3>Makefile</h3>

At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML\_USE\_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

<h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:

```
@verbatim
    <?xml version="1.0" standalone=no>
    <!-- Our to do list data -->
    <ToDo>
        <Item priority="1"> Go to the <bold>Toy store!</bold></Item>
        <Item priority="2"> Do bills</Item>
    </ToDo>
@endverbatim
```

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

```
@verbatim
    TiXmlDocument doc( "demo.xml" );
    doc.LoadFile();
@endverbatim
```

And its ready to go. Now lets look at some lines and how they relate to the DOM.

```
@verbatim
<?xml version="1.0" standalone=no>
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

```
@verbatim
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

```
@verbatim
<ToDo>
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

```
@verbatim
<Item priority="1">
@endverbatim
```

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

```
@verbatim
Go to the
@endverbatim
```

A TiXmlText. This is a leaf node and cannot contain other nodes. It is a child of the "Item" TiXmlElement.

```
@verbatim
<bold>
@endverbatim
```

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

```
@verbatim
TiXmlDocument           "demo.xml"
  TiXmlDeclaration      "version='1.0'" "standalone=no"
  TiXmlComment          " Our to do list data"
  TiXmlElement          "ToDo"
    TiXmlElement        "Item" Attributes: priority = 1
      TiXmlText         "Go to the "
      TiXmlElement      "bold"
        TiXmlText       "Toy store!"
      TiXmlElement      "Item" Attributes: priority=2
        TiXmlText       "Do bills"
```



@endverbatim

## <h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

## <h2> License </h2>

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## <h2> References </h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.

The definitive spec: <a href="http://www.w3.org/TR/2004/REC-xml-20040204/">http://www.w3.org/TR/2004/REC-xml-20040204/</a>

I also recommend "XML Pocket Reference" by Robert Eckstein and published by O'Reilly...the book that got the whole thing started.

## <h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

[www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)

Lee Thomason, Yves Berquin, Andrew Ellerton

\*/

```
=====
libtirpc-1.3.2: COPYING
=====
```

```
/*
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 * modification, are permitted provided that the following conditions
 * are met:
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 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```

```
=====
libtirpc-1.3.2: src/netname.c, 1-27
rpcbind-1.2.6: src/rpcinfo.c, 1-27
=====
```

```
/*
 * Copyright (c) 2009, Sun Microsystems, Inc.
 * All rights reserved.
```

```

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* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

```

```

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

```

#### Copyright

```
-----
```

The 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

- the terms of the GNU Lesser General Public License (LGPL) version 3 or (at your option) any later version, or
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<https://www.gnu.org/licenses/old-licenses/gpl-2.0.html>.

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```

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

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

@include version.texi

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

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

```

```

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

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

@c Macro for an advisory ragged line break in TeX mode.
@c Needed because there are long unbreakable pieces of text (such as URLs or
@c formulas), TeX is too shy to move them to a new line. TeX considers only
@c two choices: a line break in aligned mode (which it rejects due to aesthetic
@c reasons) and writing into the margin. What we want in many cases is a line
@c break without filling the first line. Like what @* delivers. But we want it
@c only when needed, so that it disappears when unrelated changes in the same
@c paragraph cause a line break in a nearby position. And we need it only in
@c TeX mode. info and HTML modes are fine.
@c This trick is from Karl Berry.
@iftex
@macro texnl
@hfil@penalty9000@hfilneg
@end macro
@end iftex
@ifnottex
@macro texnl
@end macro
@end ifnottex

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

@ifinfo

```

This manual is for GNU libunistring.

@ignore

@c This was: @copying but it triggers a makeinfo 4.13 bug  
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@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

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@top GNU libunistring

@end ifnottex

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- \* Grapheme cluster break property::

## uniwbrk.h

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- \* Word break property::

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

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@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 <uniconv.h>
conversion from/to legacy encodings
@item <unistdio.h>
formatted output to strings
@item <uniname.h>
character names
@item <unictype.h>
character classification and properties
@item <uniwidth.h>
string width when using nonproportional fonts
@item <unigbrk.h>
grapheme cluster breaks
@item <uniwbrk.h>
word breaks
@item <unilbrk.h>
line breaking algorithm
@item <uninorm.h>
normalization (composition and decomposition)
@item <unicase.h>
case folding
@item <uniregex.h>
regular expressions (not yet implemented)
@end table

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

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

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

@menu
* Unicode::                                What is Unicode?
```

```

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

```

```

@node Unicode
@section Unicode

```

```

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

```

Unicode also specifies three ways of storing sequences of Unicode
characters in a computer whose basic unit of data is an 8-bit byte:

```

@cindex UTF-8
@cindex UTF-16
@cindex UTF-32
@cindex UCS-4
@table @asis
@item UTF-8
Every character is represented as 1 to 4 bytes.
@item UTF-16
Every character is represented as 1 to 2 units of 16 bits.
@item UTF-32, a.k.a. UCS-4
Every character is represented as 1 unit of 32 bits.
@end table

```

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

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

```

References:
@itemize @bullet
@item
The Unicode standard:@texnl{} @url{https://www.unicode.org/}
@item

```

```

Definition of UTF-8:@texnl{} @url{https://www.rfc-editor.org/rfc/rfc3629.txt}
@item
Definition of UTF-16:@texnl{} @url{https://www.rfc-editor.org/rfc/rfc2781.txt}
@item
Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{}
@url{https://www.cl.cam.ac.uk/~mgk25/unicode.html}
@end itemize

```

```

@node Unicode and i18n
@section Unicode and Internationalization

```

```

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

```

```

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

```

```

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

```

```

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

```

```
@itemize @bullet
```

```
@item
```

```
Use of Unicode where needed for text processing. This is what this library
is for.

```

```
@item
```

```
Use of message catalogs for messages shown to the user, This is what
GNU gettext is about.

```

```
@item
```

```
Use of locale specific conventions for date and time formats, for numeric
formatting, or for sorting of text. This can be done adequately with the
POSIX APIs and the implementation of locales in the GNU C library.

```

```
@item
```

```
In graphical user interfaces, adapting the GUI to the default text direction
of the current locale (see

```

```
@url{https://en.wikipedia.org/wiki/Right-to-left,right-to-left languages}).

```

```
@end itemize

```

```
@node Locale encodings
```

```
@section Locale encodings

```

```
@cindex locale

```

```
A locale is a set of cultural conventions. According to POSIX, for a program,

```

at any moment, there is one locale being designated as the ``current locale''. (Actually, POSIX supports also one locale per thread, but this feature is not yet universally implemented and not widely used.)

@cindex locale categories

The locale is partitioned into several aspects, called the ``categories'' of the locale. The main various aspects are:

@itemize @bullet

@item

The character encoding and the character properties. This is the @code{LC\_CTYPE} category.

@item

The sorting rules for text. This is the @code{LC\_COLLATE} category.

@item

The language specific translations of messages. This is the @code{LC\_MESSAGES} category.

@item

The formatting rules for numbers, such as the decimal separator. This is the @code{LC\_NUMERIC} category.

@item

The formatting rules for amounts of money. This is the @code{LC\_MONETARY} category.

@item

The formatting of date and time. This is the @code{LC\_TIME} category.

@end itemize

@cindex locale encoding

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

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

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

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

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

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

@node In-memory representation

@section Choice of in-memory representation of strings

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

@itemize @bullet

@item

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

@item

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

@item

As @samp{wchar\_t \*}, a.k.a. ``wide strings''. This approach is misguided, see @ref{The wchar\_t mess}.

@end itemize

Of course, a @samp{char \*} string can, in some cases, be encoded in UTF-8. You will use the data type depending on what you can guarantee about how it's encoded: If a string is encoded in the locale encoding, or if you don't know how it's encoded, use @samp{char \*}. If, on the other hand, you can @emph{guarantee} that it is UTF-8 encoded, then you can use the UTF-8 string type, @code{uint8\_t \*}, for it.

The five types @code{char \*}, @code{uint8\_t \*}, @code{uint16\_t \*}, @code{uint32\_t \*}, and @code{wchar\_t \*} are incompatible types at the C level. Therefore, @samp{gcc -Wall} will produce a warning if, by mistake, your code contains a mismatch between these types. In the context of using GNU libunistring, even a warning about a mismatch between @code{char \*} and @code{uint8\_t \*} is a sign of a bug in your code that you should not try to silence through a cast.

@node char \* strings

@section @samp{char \*} strings

@cindex C string functions

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

@cindex locale, multibyte

The first problem with the C library API is the support of multibyte locales. According to the locale encoding, in general, every character

is represented by one or more bytes (up to 4 bytes in practice --- but use `@code{MB_LEN_MAX}` instead of the number 4 in the code). When every character is represented by only 1 byte, we speak of an ``unibyte locale'', otherwise of a ``multibyte locale''. It is important to realize that the majority of Unix installations nowadays use UTF-8 or GB18030 as locale encoding; therefore, the majority of users are using multibyte locales.

@cindex char, type

The important fact to remember is:

@cartouche

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

@end cartouche

As a consequence:

@itemize @bullet

@item

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

@item

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

@item

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

@item

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

@item

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

@item

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

@item

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

@item

The `@posixfunc{strcasecmp}`, `@posixfunc{strncasecmp}`, 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{mbsspbrk}, @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 `<unicode.h>`, see `@ref{unicode.h}`.

```
@node Unicode strings
```

```
@section Unicode strings
```

libunistring supports Unicode strings in three representations:

```
@cindex UTF-8, strings
```

```
@cindex UTF-16, strings
```

```
@cindex UTF-32, strings
```

```
@itemize @bullet
```

```
@item
```

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

```
@item
```

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

```
@item
```

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

```
@end itemize
```

As with C strings, there are two variants:

```
@itemize @bullet
```

```
@item
```

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

```
@item
```

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

zero-valued unit used as ``end marker''.

@end itemize

@node Conventions

@chapter Conventions

This chapter explains conventions valid throughout the libunistring library.

@cindex argument conventions

Variables of type @code{char \*} denote C strings in locale encoding.

See @ref{Locale encodings}.

Variables of type @code{uint8\_t \*} denote UTF-8 strings. Their units are bytes.

Variables of type @code{uint16\_t \*} denote UTF-16 strings, without byte order mark. Their units are 2-byte words.

Variables of type @code{uint32\_t \*} denote UTF-32 strings, without byte order mark. Their units are 4-byte words.

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

All functions with prefix @code{samp{ulc}\_} operate on C strings in locale encoding.

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

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

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

For every function with prefix @code{samp{u8}\_}, operating on UTF-8 strings, there is also a corresponding function with prefix @code{samp{u16}\_}, operating on UTF-16 strings, and a corresponding function with prefix @code{samp{u32}\_}, operating on UTF-32 strings. Their description is analogous; in this documentation we describe only the function that operates on UTF-8 strings, for brevity.

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

All parameters starting with @code{samp{str}} and the parameters of functions starting with @code{u8\_str}/@code{u16\_str}/@code{u32\_str} denote a NUL terminated string.

@cindex return value conventions

Error values are always returned through the @code{errno} variable, usually with a return value that indicates the presence of an error

(NULL for functions that return an pointer, or -1 for functions that return an @code{int}).

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

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

```
@node Using the library
@chapter Using the library
```

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

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

```
@node Installation
@section Installation
```

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

```
@cindex installation
```

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

@node Compiler options  
@section Compiler options

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

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

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

@cindex compiler options  
So that the compiler finds the include files, you have to pass it the option @code{-I\${LIBUNISTRING\_INCLUDEDIR}}.

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

@node Include files  
@section Include files

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

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

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

@end deftypevr

@deftypevr Constant int `_libunistring_version`

This constant contains the version of libunistring that is being used at run time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `{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 `{samplerlibunistring}`, see `{texn}`.  
`{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 `{LD_LIBRARY_PATH}`, the macro adds the appropriate run time search path options to the `{LIBUNISTRING}` variable. This works

on most systems.

@end itemize

@node Reporting problems

@section Reporting problems

@cindex bug reports

@cindex bug tracker

@cindex mailing list

If you encounter any problem, please don't hesitate to submit a detailed bug report either in the bug tracker at the project page

@url{https://savannah.gnu.org/projects/libunistring}, or by email to the @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/}.

@cindex rendering

For the rendering of Unicode strings outside of the context of a given toolkit (KDE/Qt or GNOME/Gtk), we recommend the Pango library:

@url{https://www.pango.org/}.

@include wchar\_t.texi

@include char32\_t.texi

@node Licenses

@appendix Licenses

@cindex Licenses

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

@itemize @bullet

@item

The @code{libunistring} library and its header files are dual-licensed under "the GNU LGPLv3+ or the GNU GPLv2+". This means, you can use it under either

@itemize @bullet

```

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@end itemize

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@end itemize


@menu
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* 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-0.13.1: 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-0.13.1: include/urcu/urcu.h, 4-32
=====

```

```

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

```

*
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*/

```

```

=====
liburcu-0.13.1: include/urcu/uatomic/x86.h, 4-21
=====

```

```

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

```

```

=====
libusb1-1.0.26: COPYING
=====

```

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Version 2.1, February 1999

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=====
libxi-1.8: src/XIGetDevFocus.c, 1-23
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libxinerama-1.1.4: src/Xinerama.c, 2-25
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libxml2-2.9.14: hash.c, 6-15
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lpkit-udev-common-1.0: sources/poky/meta/files/common-licenses/MIT
=====
```

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lsf-4.94.0: 00README, 645-679
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```

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

```
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+-----+-----+-----+			
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	include/ GL/ glxext.h		
+-----+-----+-----+			
GLX client code	src/ glx/	SGI Free Software License B	
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ncurses-6.3: ncurses/base/version.c, 1-27

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

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

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=====
nspr-4.29: Makefile.in, 4-38
=====

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```

```

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

include $(MOD_DEPTH)/config/autoconf.mk

DIRS = config pr lib

ifdef MOZILLA_CLIENT
# Make nsinstall use absolute symlinks by default for Mozilla OSX builds
# http://bugzilla.mozilla.org/show_bug.cgi?id=193164
ifeq ($(OS_ARCH), Darwin)
ifndef NSDISTMODE
NSDISTMODE=absolute_symlink
export NSDISTMODE
endif
endif
endif

DIST_GARBAGE = config.cache config.log config.status

all:: config.status export

include $(topsrcdir)/config/rules.mk

config.status:: configure
ifeq ($(OS_ARCH), WINNT)
    sh $(srcdir)/configure --no-create --no-recursion
else

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protobuf-3.19.4: LICENSE
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Version 3, 29 June 2007

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```

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

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

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

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



```

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=====
x11vnc-0.9.16+git: src/x11vnc.h, 1-31
=====
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xcb-util-0.4.0: src/xcb_aux.c, 1-30
=====
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=====
xcb-util-0.4.0: src/xcb_event.h, 1-27
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=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
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```
=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====
```

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

```
/*
```

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=====
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24
=====

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=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====

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

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

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

```

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/*

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=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====

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

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

```
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```
=====
xz-5.2.5: lib/getopt.c, 1-23
=====
```

```
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#ifndef _LIBC
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zlib-1.2.11: zlib.h, 6-23
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