

R&S®SFI100A

Wideband Generator Frontend for IF Signals

Open Source Acknowledgment



1444406000
Version 01.00

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Mühlhofstr. 15, 81671 München, Germany

Phone: +49 89 41 29 - 0

Fax: +49 89 41 29 12 164

Email: info@rohde-schwarz.com

Internet: www.rohde-schwarz.com

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1 Introduction

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

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2 Software packages

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

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

Package	Version	License
angular/forms	13.2.7	MIT License
angular/platform-browser	13.2.7	MIT License
angular/platform-browser-dynamic	13.2.7	MIT License
angular/router	13.2.7	MIT License
ansi-colors	4.1.1	MIT License
ansi-escapes	4.3.2	MIT License
ansi-regex	5.0.1	MIT License
ansi-styles	3.2.1	MIT License
ansi-styles	4.3.0	MIT License
ansi-styles	5.2.0	MIT License
anymatch	3.1.2	ISC License
aproba	2.0.0	ISC License
arch	2.2.0	MIT License
are-we-there-yet	3.0.0	ISC License
arg	4.1.3	MIT License
argparse	1.0.10	MIT License
argparse	2.0.1	Python License 2.0
ARM CMSIS	5.7.0	Apache License 2.0
ASN.1 Compiler	1.0	BSD 2-clause "Simplified" License
asn1	0.2.6	MIT License
assert-plus	1.0.0	MIT License
astral-regex	2.0.0	MIT License
async	3.2.4	MIT License
asynckit	0.4.0	MIT License
at-least-node	1.0.0	ISC License
Atmel SAM3U DFP	1.0.49	BSD-2-Clause Variant 2 License
avahi	0.8	GPL-2.0-or-later License AND LGPL-2.1-or-later License
Awesome Prometheus Alerts	06ae149603fba276456452ed618d1d99dca3174d	Creative Commons Attribution 4.0
aws-sign2	0.7.0	Apache License 2.0
aws4	1.12.0	MIT License

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babel-jest	27.5.1	MIT License
babel-loader	8.2.3	MIT License
babel-plugin-dynamic-import-node	2.3.3	MIT License
babel-plugin-istanbul	6.1.1	BSD 3-clause "New" or "Revised" License
babel-plugin-jest-hoist	27.5.1	MIT License
babel-plugin-polyfill-corejs2	0.3.1	MIT License
babel-plugin-polyfill-corejs3	0.5.2	MIT License
babel-plugin-polyfill-regenerator	0.3.1	MIT License
babel-preset-current-node-syntax	1.0.1	MIT License
babel-preset-jest	27.5.1	MIT License
babel/code-frame	7.18.6	MIT License
babel/compat-data	7.17.7	MIT License
babel/core	7.17.8	MIT License
babel/generator	7.21.1	MIT License
babel/helper-annotate-as-pure	7.16.7	MIT License
babel/helper-annotate-as-pure	7.18.6	MIT License
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babel/helper-create-class-features-plugin	7.21.0	MIT License
babel/helper-create-regexp-features-plugin	7.17.0	MIT License

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babel/helper-define-polyfill-provider	0.3.1	MIT License
babel/helper-environment-visitor	7.18.9	MIT License
babel/helper-explode-assignable-expression	7.16.7	MIT License
babel/helper-function-name	7.21.0	MIT License
babel/helper-hoist-variables	7.18.6	MIT License
babel/helper-member-expression-to-functions	7.21.0	MIT License
babel/helper-module-imports	7.16.7	MIT License
babel/helper-module-transforms	7.17.7	MIT License
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babel/helper-string-parser	7.19.4	MIT License
babel/helper-validator-identifier	7.19.1	MIT License
babel/helper-validator-option	7.21.0	MIT License

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babel/helper-wrap-function	7.16.8	MIT License
babel/helpers	7.17.8	MIT License
babel/highlight	7.18.6	MIT License
babel/parser	7.21.2	MIT License
babel/plugin-bugfix-safari-id-destructuring-collision-in-function-expression	7.16.7	MIT License
babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining	7.16.7	MIT License
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babel/plugin-proposal-optional-chaining	7.16.7	MIT License
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babel/plugin-transform-regenerator	7.16.7	MIT License
babel/plugin-transform-reserved-words	7.16.7	MIT License
babel/plugin-transform-shorthand-properties	7.16.7	MIT License

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babel/plugin-transform-template-literals	7.16.7	MIT License
babel/plugin-transform-typeof-symbol	7.16.7	MIT License
babel/plugin-transform-unicode-escapes	7.16.7	MIT License
babel/plugin-transform-unicode-regex	7.16.7	MIT License
babel/preset-env	7.16.11	MIT License
babel/preset-modules	0.1.5	MIT License
babel/runtime	7.16.7	MIT License
babel/template	7.16.7	MIT License
babel/template	7.20.7	MIT License
babel/traverse	7.21.2	MIT License
babel/types	7.21.2	MIT License
balanced-match	1.0.2	MIT License
base-files	3.0.14	GPL-2.0-only License
base64-js	1.5.1	MIT License
bcoe/v8-coverage	0.2.3	MIT License
bcrypt-pbkdf	1.0.2	BSD 3-clause "New" or "Revised" License
big.js	5.2.2	MIT License
binary-extensions	2.2.0	MIT License
binutils	2.38	GPL-3.0-only License
bl	4.1.0	MIT License
blob-util	2.0.2	Apache License 2.0
bluebird	3.7.1	MIT License
bluebird	3.7.2	MIT License
boost	1.75.0	Boost Software License 1.0

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boost	1.78.0	Boost Software License 1.0 AND MIT License AND Python License 2.0
brace-expansion	1.1.11	MIT License
brace-expansion	2.0.1	MIT License
braces	3.0.2	MIT License
brotli	1.0.9	MIT License
browser-process-hrtime	1.0.0	BSD 2-clause "Simplified" License
browserslist	4.20.2	MIT License
bser	2.1.1	Apache License 2.0
buffer	5.7.1	MIT License
buffer-crc32	0.2.13	MIT License
buffer-from	1.1.2	MIT License
builtins	1.0.3	MIT License
busybox	1.35.0	GPL-2.0-only License AND bzip2 License
bzip2	1.0.8	bzip2 and libbzip2 License
bzip2	1.0.8	bzip2 License
cacache	15.3.0	ISC License
cacache	16.0.3	ISC License
cachedir	2.3.0	MIT License
call-bind	1.0.2	MIT License
callsites	3.1.0	MIT License
camelcase	5.3.1	MIT License
camelcase	6.3.0	MIT License
caniuse-lite	1.0.30001320	Creative Commons Attribution 4.0
caseless	0.12.0	Apache License 2.0
ccid	1.4.33	LGPL-2.1-or-later License
chalk	2.4.2	MIT License
chalk	4.1.0	MIT License
chalk	4.1.2	MIT License
char-regex	1.0.2	MIT License
chardet	0.7.0	MIT License

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chokidar	3.5.3	MIT License
chownr	2.0.0	ISC License
chrome-trace-event	1.0.3	MIT License
ci-info	3.3.0	MIT License
cifs-utils	6.14	GPL-3.0-only License AND LGPL-3.0-only License
cjs-module-lexer	1.2.2	MIT License
cjson	1.7.15	MIT License
classlist.js	1.1.20150312	Public Domain
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cli-cursor	3.1.0	MIT License
cli-spinners	2.6.1	MIT License
cli-table3	0.6.3	MIT License
cli-truncate	2.1.0	MIT License
cli-width	3.0.0	ISC License
cliui	6.0.0	ISC License
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clone-deep	4.0.1	MIT License
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color-convert	2.0.1	MIT License
color-name	1.1.3	MIT License
color-name	1.1.4	MIT License
color-support	1.1.3	ISC License
colorette	2.0.16	MIT License
colors/colors	1.5.0	MIT License

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combined-stream	1.0.8	MIT License
commander	2.20.3	MIT License
commander	5.1.0	MIT License
common-tags	1.8.2	MIT License
comondir	1.0.1	MIT License
concat-map	0.0.1	MIT License
console-control-strings	1.1.0	ISC License
convert-source-map	1.8.0	MIT License
core-js	3.21.1	MIT License
core-js-compat	3.21.1	MIT License
core-util-is	1.0.2	MIT License
cosmiconfig	6.0.0	MIT License
cpprest	2.10.18	MIT License
cppzmq	4.7.1	MIT License
CrashCatcher	3.0	Apache License 2.0
create-require	1.1.1	MIT License
cross-spawn	7.0.3	MIT License
cssom	0.3.8	MIT License
cssom	0.4.4	MIT License
cssstyle	2.3.0	MIT License
Curl	7.87.0	curl License
curl	7.82.0	curl License
cypress	12.7.0	MIT License
cypress/request	2.88.11	Apache License 2.0
cypress/schematic	2.5.0	MIT License
cypress/webpack-preprocessor	5.17.0	MIT License
cypress/xvfb	1.2.4	MIT License
dashdash	1.14.1	MIT License
data-urls	2.0.0	MIT License
dayjs	1.11.7	MIT License

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dbus	1.14.8	Academic Free License v2.1 OR GPL-2.0-or-later License
debug	3.2.7	MIT License
debug	4.3.3	MIT License
debug	4.3.4	MIT License
decamelize	1.2.0	MIT License
decimal.js	10.3.1	MIT License
dedent	0.7.0	MIT License
deep-is	0.1.4	MIT License
deepmerge	4.2.2	MIT License
defaults	1.0.3	MIT License
define-lazy-prop	2.0.0	MIT License
define-properties	1.1.3	MIT License
delayed-stream	1.0.0	MIT License
delegates	1.0.0	MIT License
depd	1.1.2	MIT License
detect-newline	3.1.0	MIT License
diff	4.0.2	BSD 3-clause "New" or "Revised" License
diff-sequences	27.5.1	MIT License
dlt-daemon	2.18.8+2.18.9git AUTOINC +6a3bd901d8	MPL-2.0 License
dmidecode	3.3	GPL-2.0-only License
Docker-compose stack for Prome- theus monitoring	ae31b4743bf11a 9ff59a88edc019 7f36e2e3eb21	MIT License
doctrine	3.0.0	Apache License 2.0
domexception	2.0.1	MIT License
dosfstools	4.2	GPL-3.0-only License
dotenv	10.0.0	BSD 2-clause "Simplified" License
double-conver- sion (V8 project)	unspecific	BSD 3-clause "New" or "Revised" License
dropbear	2020.81	MIT License AND BSD 3-Clause License AND BSD 2-Clause License AND Public Domain
e-wm-16	1.0.13	Enlightenment License (e16)

Package	Version	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	3.02.01	BSD 3-clause "New" or "Revised" License
ecc-jsbn	0.1.2	MIT License
Eigen	3.4.0	Mozilla Public License 2.0
ejs	3.1.8	Apache License 2.0
electron-to-chromium	1.4.92	ISC License
elfutils	0.186	GPL-2.0-only License AND GPL-2.0-or-later License AND LGPL-3.0-or-later License AND GPL-3.0-or-later License
emittery	0.8.1	MIT License
emoji-regex	8.0.0	MIT License
emojis-list	3.0.0	MIT License
encoding	0.1.13	MIT License
encodings	1.0.6	Public Domain
end-of-stream	1.4.4	MIT License
enhanced-resolve	5.9.2	MIT License
enquirer	2.3.6	MIT License
env-paths	2.2.1	MIT License
err-code	2.0.3	MIT License
error-ex	1.3.2	MIT License
es-module-lexer	0.9.3	MIT License
escalade	3.1.1	MIT License
escape-string-regexp	1.0.5	MIT License
escape-string-regexp	2.0.0	MIT License
escape-string-regexp	4.0.0	MIT License
escodegen	2.0.0	BSD 2-clause "Simplified" License
eslint	8.7.0	MIT License
eslint-scope	5.1.1	BSD 2-clause "Simplified" License

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eslint-scope	7.1.1	BSD 2-clause "Simplified" License
eslint-utils	3.0.0	MIT License
eslint-visitor-keys	2.1.0	Apache License 2.0
eslint-visitor-keys	3.3.0	Apache License 2.0
eslint/eslintrc	1.2.1	MIT License
esprez	9.3.1	BSD 2-clause "Simplified" License
esprima	4.0.1	BSD 2-clause "Simplified" License
esquery	1.4.0	BSD 3-clause "New" or "Revised" License
esrecurse	4.3.0	BSD 2-clause "Simplified" License
estraverse	4.3.0	BSD 2-clause "Simplified" License
estraverse	5.3.0	BSD 2-clause "Simplified" License
esutils	2.0.3	BSD 2-clause "Simplified" License
eventemitter2	6.4.7	MIT License
events	3.3.0	MIT License
execa	4.1.0	MIT License
execa	5.1.1	MIT License
executable	4.1.1	MIT License
exit	0.1.2	MIT License
expat	2.5.0	MIT License
Expat XML Parser Toolkit	2.4.8	MIT License
expect	27.5.1	MIT License
extend	3.0.2	MIT License
external-editor	3.1.0	MIT License
extrace	0.9	BSD 2-Clause License AND GPL-2.0-or-later License
extract-zip	2.0.1	BSD 2-clause "Simplified" License
extsprintf	1.3.0	MIT License
fast-deep-equal	3.1.3	MIT License
fast-glob	3.2.7	MIT License
fast-json-stable- stringify	2.1.0	MIT License
fast-levenshtein	2.0.6	MIT License
fastq	1.13.0	ISC License

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fb-watchman	2.0.1	Apache License 2.0
fd-slicer	1.1.0	MIT License
figures	3.2.0	MIT License
file-entry-cache	6.0.1	MIT License
file-saver	2.0.5	MIT License
filelist	1.0.4	Apache License 2.0
fill-range	7.0.1	MIT License
find-cache-dir	3.3.2	MIT License
find-up	4.1.0	MIT License
flashrom	1.2	GPL-2.0-or-later License
flat	5.0.2	BSD 3-clause "New" or "Revised" License
flat-cache	3.0.4	MIT License
flatbuffers	1.12.0	Apache License 2.0
flatted	3.2.5	ISC License
focus-visible	5.2.0	W3C Software Notice and License (2002-12-31)
font-alias	1.0.4	MIT License
font-util	1.3.3	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
fontconfig	2.13.1	MIT License AND MIT License AND Public Domain
forever-agent	0.6.1	Apache License 2.0
fork-ts-checker-webpack-plugin	6.2.10	MIT License
form-data	2.3.3	MIT License
form-data	3.0.1	MIT License
formfactor	0.0	MIT License
freeRTOS	2.0.11	MIT License
freetype	2.11.1	Freetype Project License OR GPL-2.0-or-later License
fs-extra	9.1.0	MIT License
fs-minipass	2.1.0	ISC License
fs-monkey	1.0.3	The Unlicense

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fs.realpath	1.0.0	ISC License
FSBAllocator	2004-09-04	MIT License
function-bind	1.1.1	MIT License
functional-red-black-tree	1.0.1	MIT License
fuse	2.9.9	GPL-2.0-only License AND LGPL-2.0-only License
gar/promisify	1.1.3	MIT License
gauge	4.0.3	ISC License
gcc-runtime	11.4.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1
gdb	11.2	GPL-2.0-only License AND GPL-3.0-only License AND LGPL-2.0-only License AND LGPL-3.0-only License
gensync	1.0.0-beta.2	MIT License
get-caller-file	2.0.5	ISC License
get-intrinsic	1.1.1	MIT License
get-package-type	0.1.0	MIT License
get-stream	5.2.0	MIT License
get-stream	6.0.1	MIT License
getos	3.2.1	MIT License
getpass	0.1.7	MIT License
glib-2.0	2.72.3	LGPL-2.1-or-later License AND BSD 3-Clause License AND Public Domain
glibc	2.35	GPL-2.0-only License AND LGPL-2.1-only License
glob	7.1.4	ISC License
glob	7.2.0	ISC License
glob-parent	5.1.2	ISC License
glob-parent	6.0.2	ISC License
glob-to-regexp	0.4.1	BSD 2-clause "Simplified" License
global-dirs	3.0.1	MIT License
globals	11.12.0	MIT License

Package	Version	License
globals	13.13.0	MIT License
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 commandline flags module for C++	2.2.2	BSD 3-clause "New" or "Revised" License
Google Protobuf protocol buffers library	2.6.1	BSD 3-clause "New" or "Revised" License
Google Protobuf protocol buffers library	3.17.1 & 3.19.2	BSD 3-clause "New" or "Revised" License
googletest	1.8.1	Lawrence Berkeley National Labs BSD variant license
gperftools	2.9.1	BSD 3-Clause License
graceful-fs	4.2.9	ISC License
Grafana	9.2.6	GNU Affero General Public License v3.0
grub	2.04+2.06~rc1	GPL-3.0-only License
harmony-reflect	1.6.2	((Apache-2.0 OR Mozilla Public License Version 1.1)
has	1.0.3	MIT License
has-flag	3.0.0	MIT License
has-flag	4.0.0	MIT License
has-symbols	1.0.3	MIT License
has-unicode	2.0.1	ISC License
haveged	1.9.18	GPL-3.0-only License
hosted-git-info	4.1.0	ISC License
html-encoding-sniffer	2.0.1	MIT License
html-escaper	2.0.2	MIT License
htop	3.1.2	GPL-2.0-only License
http-cache-semantics	4.1.0	BSD 2-clause "Simplified" License
http-proxy-agent	4.0.1	MIT License
http-proxy-agent	5.0.0	MIT License
http-signature	1.3.6	MIT License

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https-proxy-agent	5.0.0	MIT License
human-signals	1.1.1	Apache License 2.0
human-signals	2.1.0	Apache License 2.0
humanize-ms	1.2.1	MIT License
humanwhocodes/config-array	0.9.5	Apache License 2.0
humanwhocodes/object-schema	1.2.1	BSD 3-clause "New" or "Revised" License
iconv-lite	0.4.24	MIT License
iconv-lite	0.6.3	MIT License
icu	70.1	ICU License
identity-obj-proxy	3.0.0	MIT License
ieee754	1.2.1	BSD 3-clause "New" or "Revised" License
ifplugd	0.28	GPL-2.0-only License
ignore	5.2.0	MIT License
ignore-walk	4.0.1	ISC License
imlib2	1.7.1	Imlib2 License
import-fresh	3.3.0	MIT License
imurmurhash	0.1.4	MIT License
indent-string	4.0.0	MIT License
infer-owner	1.0.4	ISC License
inflight	1.0.6	ISC License
inherits	2.0.4	ISC License
ini	2.0.0	ISC License
inquirer	8.2.0	MIT License
ip	1.1.5	MIT License
iptables	1.8.7	GPL-2.0-or-later License
is-arrayish	0.2.1	MIT License
is-binary-path	2.1.0	MIT License
is-ci	3.0.1	MIT License
is-core-module	2.8.1	MIT License
is-docker	2.2.1	MIT License
is-extglob	2.1.1	MIT License

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is-fullwidth-code-point	3.0.0	MIT License
is-generator-fn	2.1.0	MIT License
is-glob	4.0.3	MIT License
is-installed-globally	0.4.0	MIT License
is-interactive	1.0.0	MIT License
is-lambda	1.0.1	MIT License
is-number	7.0.0	MIT License
is-path-inside	3.0.3	MIT License
is-plain-object	2.0.4	MIT License
is-potential-custom-element-name	1.0.1	MIT License
is-stream	2.0.1	MIT License
is-typedarray	1.0.0	MIT License
is-unicode-supported	0.1.0	MIT License
is-wsl	2.2.0	MIT License
isexe	2.0.0	ISC License
isobject	3.0.1	MIT License
isstream	0.1.2	MIT License
istanbul-lib-coverage	3.2.0	BSD 3-clause "New" or "Revised" License
istanbul-lib-instrument	4.0.3	BSD 3-clause "New" or "Revised" License
istanbul-lib-instrument	5.1.0	BSD 3-clause "New" or "Revised" License
istanbul-lib-report	3.0.0	BSD 3-clause "New" or "Revised" License
istanbul-lib-source-maps	4.0.1	BSD 3-clause "New" or "Revised" License
istanbul-reports	3.1.4	BSD 3-clause "New" or "Revised" License
istanbuljs/load-nyc-config	1.1.0	ISC License
istanbuljs/schema	0.1.3	MIT License
jake	10.8.5	Apache License 2.0
jansson	2.13.1	MIT License

Package	Version	License
jasmine-marbles	0.8.4	MIT License
jbig2dec	0.17	AGPL-3.0-or-later License
jest-circus	27.5.1	MIT License
jest-config	27.2.2	MIT License
jest-diff	27.5.1	MIT License
jest-docblock	27.5.1	MIT License
jest-each	27.5.1	MIT License
jest-environment-jsdom	27.5.1	MIT License
jest-environment-node	27.5.1	MIT License
jest-get-type	27.5.1	MIT License
jest-haste-map	27.5.1	MIT License
jest-jasmine2	27.5.1	MIT License
jest-leak-detector	27.5.1	MIT License
jest-matcher-utils	27.5.1	MIT License
jest-message-util	27.5.1	MIT License
jest-mock	27.5.1	MIT License
jest-pnp-resolver	1.2.2	MIT License
jest-regex-util	27.5.1	MIT License
jest-resolve	27.2.2	MIT License
jest-resolve	27.5.1	MIT License
jest-runner	27.5.1	MIT License
jest-runtime	27.5.1	MIT License
jest-serializer	27.5.1	MIT License
jest-snapshot	27.5.1	MIT License
jest-util	27.2.0	MIT License
jest-util	27.5.1	MIT License
jest-validate	27.5.1	MIT License
jest-worker	27.5.1	MIT License
jest/console	27.5.1	MIT License
jest/environment	27.5.1	MIT License
jest/fake-timers	27.5.1	MIT License
jest/globals	27.5.1	MIT License

Package	Version	License
jest/reporters	27.2.2	MIT License
jest/source-map	27.5.1	MIT License
jest/test-result	27.2.2	MIT License
jest/test-result	27.5.1	MIT License
jest/test-sequencer	27.5.1	MIT License
jest/transform	27.5.1	MIT License
jest/types	27.5.1	MIT License
jridgewell/gen-mapping	0.3.2	MIT License
jridgewell/resolve-uri	3.1.0	MIT License
jridgewell/set-array	1.1.2	MIT License
jridgewell/sourcemap-codec	1.4.14	MIT License
jridgewell/trace-mapping	0.3.17	MIT License
js-tokens	4.0.0	MIT License
js-yaml	3.14.1	MIT License
js-yaml	4.1.0	MIT License
jsbn	0.1.1	MIT License
jsdom	16.7.0	MIT License
jsesc	0.5.0	MIT License
jsesc	2.5.2	MIT License
json-c	0.15	MIT License
json-parse-better-errors	1.0.2	MIT License
json-parse-even-better-errors	2.3.1	MIT License
json-schema	0.4.0	((AFL-2.1 OR BSD 3-clause "New" or "Revised" License)
json-schema-traverse	0.4.1	MIT License
json-schema-traverse	1.0.0	MIT License
json-stable-stringify-without-jsonify	1.0.1	MIT License

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json-stringify-safe	5.0.1	ISC License
json5	1.0.1	MIT License
json5	2.2.3	MIT License
jsonc-parser	3.0.0	MIT License
jsonfile	6.1.0	MIT License
jsonparse	1.3.1	MIT License
jsprim	2.0.2	MIT License
kind-of	6.0.3	MIT License
KissFFT	1.3.0	BSD 3-clause "New" or "Revised" License
kmod	29	GPL-2.0-or-later License AND LGPL-2.1-or-later License
krb5	1.17.2	MIT License
lazy-ass	1.6.0	MIT License
lcms	2.13.1	MIT License
leven	3.1.0	MIT License
levn	0.3.0	MIT License
levn	0.4.1	MIT License
libarchive	3.5.1	BSD 2-Clause License
libarchive	3.6.2	BSD 2-Clause License
libcap	2.66	BSD 3-Clause License OR GPL-2.0-only License
libdaemon	0.14	LGPL-2.1-or-later License
libdrm	2.4.110	MIT License
libedit	20210910-3.1	BSD 3-Clause License
libepoxy	1.5.10	MIT License
libev	4.33	BSD 2-Clause License OR GPL-2.0-or-later License
libevdev	1.12.1	MIT License
libevent	2.1.12	BSD 3-Clause License AND MIT License
libffi	3.4.4	MIT License
libfontenc	1.1.4	MIT License
libftdi	1.4	LGPL-2.1-only License AND GPL-2.0-only License

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libgcc	11.4.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1 AND GPL-3.0-only License
libcrypt	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	((LGPL-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)
libinput	1.19.4	MIT License
libjpeg-turbo	2.1.5.1	BSD 3-Clause License
libldb	2.3.4	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	1.6.39	libpng License
libqrencode	4.0.2	GNU Lesser General Public License v2.1
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
libtinymxml	2.6.2	zlib License

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libtirpc	1.3.2	BSD 3-Clause License
libunistring	1.0	LGPL-3.0-or-later License OR GPL-2.0-or-later License
libunwind	1.6.2	MIT License
liburcu	0.13.2	LGPL-2.1-or-later License AND MIT License
libusb1	1.0.26	LGPL-2.1-or-later License
libuv	1.44.2	MIT License
libvncserver	0.9.13	GPL-2.0-only License
libwebsockets	4.2.2	MIT License AND zlib License AND BSD 3-Clause License AND Apache License 2.0
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	4.4.33	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
libxfixes	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

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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	3.5.17	MIT License
libxrandr	1.5.2	MIT License
libxrender	0.9.10	MIT License
libxshmfence	1.3	Historical Permission Notice and Disclaimer
libxt	1.2.1	MIT License AND MIT License AND
libxtst	1.2.3	MIT License
libxxf86vm	1.1.4	MIT License
lines-and-columns	1.2.4	MIT License
linux-firmware-amdgpu	1.0	Firmware-amd License
linux-firmware-radeon	1.0	Firmware-amd License
listr2	3.14.0	MIT License
lit	2.4.0	BSD 3-clause "New" or "Revised" License
lit-element	3.2.2	BSD 3-clause "New" or "Revised" License
lit-html	2.4.0	BSD 3-clause "New" or "Revised" License
lit-labs/react	1.0.9	BSD 3-clause "New" or "Revised" License
lit-labs/scoped-registry-mixin	1.0.1	BSD 3-clause "New" or "Revised" License
lit/reactive-element	1.4.1	BSD 3-clause "New" or "Revised" License
llvm	13.0.1	Apache License 2.0 WITH LLVM Exception
loader-runner	4.2.0	MIT License
loader-utils	1.4.0	MIT License
locate-path	5.0.0	MIT License
lodash	4.17.21	MIT License
lodash.debounce	4.0.8	MIT License
lodash.merge	4.6.2	MIT License

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lodash.once	4.1.1	MIT License
log-symbols	4.1.0	MIT License
log-update	4.0.0	MIT License
lpkit-udev-common	1.0	MIT License
lru-cache	6.0.0	ISC License
lru-cache	7.7.1	ISC License
lsuf	4.94.0	Spencer-94 License
ltnng-ust	2.13.5	LGPL-2.1-or-later License AND MIT License AND GPL-2.0-only License
lzo	2.10	GPL-2.0-or-later License
magic-string	0.25.7	MIT License
make-dir	3.1.0	MIT License
make-error	1.3.6	ISC License
make-fetch-happen	10.0.6	ISC License
make-fetch-happen	9.1.0	ISC License
makeerror	1.0.12	BSD 3-clause "New" or "Revised" License
mbed TLS	2.14.0	Apache License 2.0
MCUXpresso LCP55S28 Software Development Kit (SDK)	2.13.0	BSD 3-clause "New" or "Revised" License
MD4 (RFC 1320) Message-Digest Algorithm	unspecific	MD4 license
MD5 (RFC 1321) Message-Digest Algorithm	unspecific	RSA Message-Digest License
memfs	3.4.1	The Unlicense
merge-stream	2.0.0	MIT License
merge2	1.4.1	MIT License
mesa	22.0.3	MIT License
mhddfs	0.1.39+git	GPL-3.0-or-later License
micromatch	4.0.4	MIT License
mime-db	1.52.0	MIT License

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mime-types	2.1.35	MIT License
mimic-fn	2.1.0	MIT License
minimatch	3.0.4	ISC License
minimatch	5.1.6	ISC License
minimist	1.2.6	MIT License
minipass	3.1.6	ISC License
minipass-collect	1.0.2	ISC License
minipass-fetch	1.4.1	MIT License
minipass-fetch	2.0.3	MIT License
minipass-flush	1.0.5	ISC License
minipass-json-stream	1.0.1	MIT License
minipass-pipeline	1.2.4	ISC License
minipass-sized	1.0.3	ISC License
minizip	2.10.0	zlib License
minizip-ng	3.0.6	zlib License
minizlib	2.1.2	MIT License
mkdirp	1.0.4	MIT License
mkfontscale	1.2.2	MIT License
mosquitto	2.0.14	EPL-2.0 License OR EDL-1.0 License
ms	2.1.2	MIT License
mtdev	1.1.6	MIT License
mtrace-ng	1.0	GPL-2.0-only License
mupdf	1.15.0	AGPL-3.0-only License
musl-libc	1.1.16	MIT License
mute-stream	0.0.8	ISC License
natural-compare	1.4.0	MIT License
ncurses	6.3+20220423	MIT License
negotiator	0.6.3	MIT License
neo-async	2.6.2	MIT License
net-snmp	5.9.3	BSD 3-Clause License AND MIT License
netbase	6.3	GPL-2.0-only License

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nettle	3.7.3	LGPL-3.0-or-later License OR GPL-2.0-or-later License
nfs-utils	2.6.1	MIT License AND GPL-2.0-or-later License AND BSD 3-Clause License
nghttp2	1.47.0	MIT License
nghttp2	1.47.0	MIT License
nginx	1.20.1	BSD 2-Clause License
ngrx/store	13.2.0	MIT License
ngx-translate/ core	13.0.0	MIT License
ngx-translate/ http-loader	6.0.0	MIT License
nlohman_json	3.11.2	MIT License
Node Exporter	1.5.0	Apache License 2.0
Node Exporter Full Dashboard	schema version 37	Apache License 2.0
node-addon-api	3.2.1	MIT License
node-gyp	8.4.1	MIT License
node-gyp-build	4.3.0	MIT License
node-int64	0.4.0	MIT License
node-releases	2.0.2	MIT License
nodelib/fs.scan- dir	2.1.5	MIT License
nodelib/fs.stat	2.0.5	MIT License
nodelib/fs.walk	1.2.8	MIT License
nopt	5.0.0	ISC License
normalize-path	3.0.0	MIT License
NotoSansUI- Bold	1.06	SIL Open Font License 1.1
NotoSansUI-Bol- dItalic	1.06	SIL Open Font License 1.1
NotoSansUI- Italic	1.06	SIL Open Font License 1.1
NotoSansUI- Regular	1.06	SIL Open Font License 1.1

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npm-bundled	1.1.2	ISC License
npm-install-checks	4.0.0	BSD 2-clause "Simplified" License
npm-normalize-package-bin	1.0.1	ISC License
npm-package-arg	8.1.5	ISC License
npm-packlist	3.0.0	ISC License
npm-pick-manifest	6.1.1	ISC License
npm-registry-fetch	12.0.2	ISC License
npm-run-path	4.0.1	MIT License
npmcli/fs	1.1.1	ISC License
npmcli/fs	2.1.0	ISC License
npmcli/git	2.1.0	ISC License
npmcli/installed-package-contents	1.0.7	ISC License
npmcli/move-file	1.1.2	MIT License
npmcli/node-gyp	1.0.3	ISC License
npmcli/promise-spawn	1.3.2	ISC License
npmcli/run-script	2.0.0	ISC License
npmlog	6.0.1	ISC License
nrwl/angular	13.9.4	MIT License
nrwl/cli	13.9.4	MIT License
nrwl/cypress	13.9.4	MIT License
nrwl/devkit	13.9.4	MIT License
nrwl/jest	13.9.4	MIT License
nrwl/linter	13.9.4	MIT License
nrwl/storybook	13.9.4	MIT License

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nrwl/tao	13.9.4	MIT License
nrwl/workspace	13.9.4	MIT License
nspr	4.29	GPL-2.0-only License OR MPL-2.0 License OR LGPL-2.1-only License
nss	3.74	(IMPL-2.0 License AND MIT License)) OR (IMPL-2.0 License AND GPL-2.0-or-later License AND MIT License)) OR (IMPL-2.0 License AND LGPL-2.1-or-later License AND MIT License)) OR
nwsapi	2.2.0	MIT License
nx	13.9.4	MIT License
object-inspect	1.12.3	MIT License
object-keys	1.1.1	MIT License
object.assign	4.1.2	MIT License
once	1.4.0	ISC License
onetime	5.1.2	MIT License
open	8.4.0	MIT License
openjpeg	2.4.0	BSD 2-Clause License
openssl	3.0.12	Apache License 2.0
OpenSSL cryptographic library	3.0.7	Apache License 2.0
optionator	0.8.3	MIT License
optionator	0.9.1	MIT License
ora	5.4.1	MIT License
os-release	1.0	MIT License
os-tmpdir	1.0.2	MIT License
ospath	1.2.2	MIT License
p-limit	2.3.0	MIT License
p-locate	4.1.0	MIT License
p-map	4.0.0	MIT License
p-try	2.2.0	MIT License
pacote	12.0.3	ISC License

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paho-mqtt-c	1.3.9	Eclipse Public License - v 2.0
paho-mqtt-cpp	1.2.0	Eclipse Public License - v 2.0
parcel/watcher	2.0.4	MIT License
parent-module	1.0.1	MIT License
parse-json	5.2.0	MIT License
parse5	5.1.1	MIT License
parse5	6.0.1	MIT License
path-exists	4.0.0	MIT License
path-is-absolute	1.0.1	MIT License
path-key	3.1.1	MIT License
path-parse	1.0.7	MIT License
path-type	4.0.0	MIT License
pciutils	3.7.0	GPL-2.0-or-later License
PCRE2 library	10.40	BSD 3-clause "New" or "Revised" License
pcsc-lite	1.9.0	BSD 3-Clause License AND GPL-3.0-or-later License
pend	1.2.0	MIT License
performance-now	2.1.0	MIT License
phenomnomnominal/tsquery	4.1.1	MIT License
php	8.1.16	PHP License v3.0
picocolors	1.0.0	ISC License
picomatch	2.3.1	MIT License
pify	2.3.0	MIT License
pirates	4.0.5	MIT License
pixman	0.40.0	MIT License AND Public Domain
pkg-dir	4.2.0	MIT License
Poco	1.11.0	Boost Software License 1.0
POCO C++ libraries	1.12.4	Boost Software License 1.0
popt	1.18	MIT License
prelude-ls	1.1.2	MIT License
prelude-ls	1.2.1	MIT License

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prettier	2.6.0	MIT License
pretty-bytes	5.6.0	MIT License
pretty-format	27.5.1	MIT License
primeicons	4.1.0	MIT License
primeng	11.4.5	MIT License
Prometheus	2.36.2 & 2.41.0	Apache License 2.0
promise-inflight	1.0.1	ISC License
promise-retry	2.0.1	MIT License
protobuf	3.19.6	BSD 3-Clause License
proxy-from-env	1.0.0	MIT License
psl	1.8.0	MIT License
Public Domain JSON Parser for C	unspecific	The Unlicense
pugixml	1.11	MIT License
pump	3.0.0	MIT License
punycode	2.1.1	MIT License
pure-ftpd	1.0.47	BSD Zero Clause License
qs	6.10.4	BSD 3-clause "New" or "Revised" License
queue-microtask	1.2.3	MIT License
randombytes	2.1.0	MIT License
RapidXml XML parser	1.13	Boost Software License 1.0
react-is	17.0.2	MIT License
read-package- json-fast	2.0.3	ISC License
readable-stream	3.6.0	MIT License
readdirp	3.6.0	MIT License
readline	8.1.2	GPL-3.0-or-later License
regenerate	1.4.2	MIT License
regenerate-uni- code-properties	10.0.1	MIT License
regenerator-run- time	0.13.9	MIT License
regenerator- transform	0.14.5	MIT License

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regexpp	3.2.0	MIT License
regexpu-core	5.0.1	MIT License
regjsgen	0.6.0	MIT License
regjsparser	0.8.4	BSD 2-clause "Simplified" License
remez-exchange	1.0	GNU Lesser General Public License v3.0
request-progress	3.0.0	MIT License
require-directory	2.1.1	MIT License
require-from-string	2.0.2	MIT License
require-main-file-name	2.0.0	ISC License
ResizableLib	1.1	Artistic License 1.0
resolve	1.22.0	MIT License
resolve-from	4.0.0	MIT License
resolve-from	5.0.0	MIT License
resolve.exports	1.1.0	MIT License
restore-cursor	3.1.0	MIT License
retry	0.12.0	MIT License
reusify	1.0.4	MIT License
rfdc	1.3.0	MIT License
rgb	1.0.6	MIT License
rimraf	3.0.2	ISC License
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ts-node	9.1.1	MIT License
tsconfig-paths	3.14.1	MIT License
tsconfig-paths- webpack-plugin	3.5.2	MIT License

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xauth	1.1.1	MIT License
xcb-util	0.4.0	MIT License
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xcb-util-renderutil	0.3.9	MIT License
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LLVM Compiler is developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

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3.15 GCC Runtime Library exception 3.1

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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

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

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

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

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

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geosimplify-js polyline simplification library

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Qt port of geosimplify.js, <https://github.com/mapbox/geosimplify-js>

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Based on simplify-js by Vladimir Agafonkin - <http://mourner.github.io/simplify-js/>
Mapbox GL Native

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CSS Color Parser

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

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polylabel

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shelf-pack-cpp

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Android Explicit Synchronization

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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
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CityHash

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

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Closure compiler

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

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Cocoa extension code from Camino

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

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Compact Encoding Detection

Project Homepage: https://github.com/google/compact_enc_det

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d3

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Dawn

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dynamic annotations

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Emoji Segmenter

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

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Expat XML Parser

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

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Gisquet <christophe.gisquet@gmail.com> ===== SSE2 inverse discrete cosine transfo
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modifications by Alexander Strange <astrange@ithinksw.com>; Originally from
dct/x86_asm/fdct_sse2_skal.asm in Xvid. Vertical pass is an implementation of the scheme: Loe
Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT Algorithm with Eleven Multiplications,
ICASSP 1989, 988-991. Horizontal pass is a double 4x4 vector/matrix multiplication, (see also
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Google Ink

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google-glog's symbolization library

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

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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
./test/eigen2/eigen2_eigensolver.cpp ./test/eigen2/eigen2_linearstructure.cpp ./test/eigen2/e
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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/Splines/SplineFitting.h ./unsupported/Eigen/src/Splines/SplineFwd.h
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./Eigen/src/Eigen2Support/Lazy.h ./Eigen/src/Eigen2Support/Memory.h
./Eigen/src/Eigen2Support/MathFunctions.h ./Eigen/src/Eigen2Support/Geometry/AlignedBox.h
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./Eigen/src/Eigen2Support/Geometry/Rotation2D.h ./Eigen/src/Eigen2Support/Geometry/ParametrizedLine.h
./Eigen/src/Eigen2Support/Geometry/RotationBase.h ./Eigen/src/Eigen2Support/Geometry/Translation.h
./Eigen/src/Eigen2Support/Geometry/Scaling.h ./Eigen/src/Eigen2Support/Geometry/AngleAxis.h
./Eigen/src/Eigen2Support/Geometry/Transform.h ./Eigen/src/Eigen2Support/TriangularSolver.h
./Eigen/src/Eigen2Support/LU.h ./Eigen/src/Eigen2Support/QR.h ./Eigen/src/Eigen2Support/SVD.h
./Eigen/src/Eigen2Support/Meta.h ./Eigen/src/Eigen2Support/Block.h ./Eigen/src/Eigen2Support/Block.h
./Eigen/src/Eigen2Support/LeastSquares.h ./Eigen/src/Eigen2Support/CwiseOperators.h
./Eigen/src/Jacobi/Jacobi.h ./Eigen/src/misc/Kernel.h ./Eigen/src/misc/SparseSolve.h ./Eigen/src/misc/Image.h
./Eigen/src/misc/Image.h ./Eigen/src/SparseCore/SparseColEtree.h
./Eigen/src/SparseCore/SparseTranspose.h ./Eigen/src/SparseCore/SparseUtil.h
./Eigen/src/SparseCore/SparseCwiseBinaryOp.h ./Eigen/src/SparseCore/SparseDiagonalProduct.h
./Eigen/src/SparseCore/SparseProduct.h ./Eigen/src/SparseCore/SparseDot.h
./Eigen/src/SparseCore/SparseCwiseUnaryOp.h ./Eigen/src/SparseCore/SparseSparseProductWithPruning.h
./Eigen/src/SparseCore/SparseBlock.h ./Eigen/src/SparseCore/SparseDenseProduct.h
./Eigen/src/SparseCore/CompressedStorage.h ./Eigen/src/SparseCore/SparseMatrixBase.h
./Eigen/src/SparseCore/MappedSparseMatrix.h ./Eigen/src/SparseCore/SparseTriangularView.h

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./Eigen/src/SparseCore/SparseView.h ./Eigen/src/SparseCore/SparseFuzzy.h
./Eigen/src/SparseCore/TriangularSolver.h ./Eigen/src/SparseCore/SparseSelfAdjointView.h
./Eigen/src/SparseCore/SparseMatrix.h ./Eigen/src/SparseCore/SparseVector.h
./Eigen/src/SparseCore/AmbiVector.h ./Eigen/src/SparseCore/ConservativeSparseProduct.h
./Eigen/src/SparseCore/SparseRedux.h ./Eigen/src/SparseCore/SparsePermutation.h
./Eigen/src/Eigenvalues/RealSchur.h ./Eigen/src/Eigenvalues/ComplexEigenSolver.h
./Eigen/src/Eigenvalues/GeneralizedEigenSolver.h
./Eigen/src/Eigenvalues/ComplexSchur.h ./Eigen/src/Eigenvalues/RealQZ.h
./Eigen/src/Eigenvalues/EigenSolver.h ./Eigen/src/Eigenvalues/HessenbergDecomposition.h
./Eigen/src/Eigenvalues/GeneralizedSelfAdjointEigenSolver.h ./Eigen/src/Eigenvalues/Tridiagonalization.h
./Eigen/src/Eigenvalues/SelfAdjointEigenSolver.h ./Eigen/src/Eigenvalues/MatrixBaseEigenvalues.h
./Eigen/src/SuperLUSupport/SuperLUSupport.h ./Eigen/src/StlSupport/StdDeque.h
./Eigen/src/StlSupport/StdVector.h ./Eigen/src/StlSupport/StdList.h ./Eigen/src/StlSupport/StdDeque.h
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./Eigen/src/LU/Determinant.h ./Eigen/src/LU/PartialPivLU.h ./Eigen/src/LU/FullPivLU.h
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./Eigen/src/OrderingMethods/Eigen_Colamd.h ./Eigen/src/QR/HouseholderQR.h
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./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
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./Eigen/src/Core/products/TriangularMatrixMatrix.h ./Eigen/src/Core/Reverse.h
./Eigen/src/Core/BooleanRedux.h ./Eigen/src/Core/Replicate.h ./Eigen/src/Core/arch/Altivec/Altivec.h
./Eigen/src/Core/arch/Altivec/Complex.h ./Eigen/src/Core/arch/SSE/PacketMath.h
./Eigen/src/Core/arch/SSE/Complex.h ./Eigen/src/Core/arch/SSE/MathFunctions.h
./Eigen/src/Core/arch/NEON/PacketMath.h ./Eigen/src/Core/arch/NEON/Complex.h
./Eigen/src/Core/arch/Default/Settings.h ./Eigen/src/Core/CwiseUnaryView.h ./Eigen/src/Core/Array.h
./Eigen/src/Core/ArrayWrapper.h ./Eigen/src/Core/Swap.h ./Eigen/src/Core/Transpositions.h

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./Eigen/src/Core/Random.h ./Eigen/src/Core/IO.h ./Eigen/src/Core/SelfCwiseBinaryOp.h
./Eigen/src/Core/VectorwiseOp.h ./Eigen/src/Core/Select.h ./Eigen/src/Core/ArrayBase.h
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./Eigen/src/Core/Redux.h ./Eigen/src/Core/ForceAlignedAccess.h
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./Eigen/src/Core/Dot.h ./Eigen/src/Core/Functors.h ./Eigen/src/Core/PermutationMatrix.h
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./Eigen/src/Core/util/ForwardDeclarations.h ./Eigen/src/Core/util/Meta.h ./Eigen/src/Core/uti
./Eigen/src/Core/util/Constants.h ./Eigen/src/Core/CwiseNullaryOp.h ./Eigen/src/Core/Block.h
./Eigen/src/Core/GeneralProduct.h ./Eigen/src/Core/CommaInitializer.h ./Eigen/src/Core/Return
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./Eigen/src/SparseLU/SparseLU_relax_snode.h ./Eigen/src/SparseLU/SparseLU_panel_bmod.h
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./Eigen/src/SparseCholesky/SimplicialCholesky.h ./Eigen/src/Cholesky/LDLT.h
./Eigen/src/Cholesky/LLT.h ./Eigen/src/CholmodSupport/CholmodSupport.h
./Eigen/src/PaStiXSupport/PaStiXSupport.h ./Eigen/src/MetisSupport/MetisSupport.h ./Eigen/Std
./Eigen/Core ./Eigen/SparseLU ./Eigen/StdList ./Eigen/StdDeque ./Eigen/SparseCholesky
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./blas/PackedTriangularMatrixVector.h ./blas/complex_double.cpp ./blas/level2_real_impl.h
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./blas/level2_cplx_impl.h ./blas/PackedSelfadjointProduct.h ./blas/Rank2Update.h ./blas/compl
./blas/PackedTriangularSolverVector.h ./blas/double.cpp ./blas/common.h ./blas/level2_impl.h
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./Eigen/src/LU/arch/Inverse_SSE.h ./Eigen/src/LU/PartialPivLU_MKL.h ./Eigen/src/LU/PartialPivLU_MKL.h
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./Eigen/src/QR/ColPivHouseholderQR_MKL.h ./Eigen/src/QR/ColPivHouseholderQR_MKL.h
./Eigen/src/SVD/JacobiSVD_MKL.h ./Eigen/src/SVD/JacobiSVD_MKL.h
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./Eigen/src/Core/products/TriangularSolverMatrix_MKL.h ./Eigen/src/Core/util/MKL_support.h
./Eigen/src/Core/util/MKL_support.h ./Eigen/src/Cholesky/LLT_MKL.h ./Eigen/src/Cholesky/LLT_M
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GVR Keyboard

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harfbuzz-ng

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Headers for the Windows 10 WebAuthn API (webauthn.dll)

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

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jsoncpp

Project Homepage: <https://github.com/open-source-parsers/jsoncpp>

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Khronos reference front-end for GLSL and ESSL

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LevelDB: A Fast Persistent Key-Value Store

Project Homepage: <https://github.com/google/leveldb.git>

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libaddressinput

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libcxx-pretty-printers

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libjpeg-turbo

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libprotobuf-mutator

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libudev

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opus

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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

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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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Shaderc

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six

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Snappy: A fast compressor/decompressor

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tcmalloc

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Project Homepage: <https://github.com/aawc/unrar.git>

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url_parse

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usrstcp

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v4l-utils

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V8 JavaScript Engine

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valgrind

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WebM container parser and writer.

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WebP image encoder/decoder

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Weston - reference Wayland compositor

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Windows Template Library (WTL)

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woff2

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Wuffs (Wrangling Untrusted File Formats Safely)

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That's all there is to it!

```

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

#ifndef 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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```

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***/

#include "rr.h"

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

/***

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***/

#ifdef HAVE_CONFIG_H
 #include <config.h>

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

#ifndef fooclienthfoo

```
#define fooclienthfoo

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****/
```

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

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- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
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of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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- 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.

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License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

```
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
```

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

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

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

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

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

That's all there is to it!

```

=====
binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
cifs-utils-6.14: COPYING
dosfstools-4.2: COPYING
elfutils-0.186: COPYING
gcc-runtime-11.4.0: COPYING3
gdb-11.2: COPYING3
gmp-6.2.1: COPYING
grub-2.04+2.06~rc1: COPYING
haveged-1.9.18: COPYING
libgcc-11.4.0: COPYING3
mhdfs-0.1.39+git: LICENSE
readline-8.1.2: COPYING
samba-4.14.14: COPYING
xz-5.2.6: COPYING.GPLv3
=====

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Version 3, 29 June 2007

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```
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```

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```
=====
binutils-2.38: COPYING3.LIB
gcc-runtime-11.4.0: COPYING3.LIB
gdb-11.2: COPYING3.LIB
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nettle-3.7.3: COPYING.LESSERv3
=====
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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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loginrec.h
atomicio.h
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Contributors (alphabetical order)

Daniel J. Bernstein, University of Illinois at Chicago and Technische
Universiteit Eindhoven

Bernard van Gastel, Radboud Universiteit Nijmegen

Wesley Janssen, Radboud Universiteit Nijmegen

Tanja Lange, Technische Universiteit Eindhoven

Peter Schwabe, Radboud Universiteit Nijmegen

Sjaak Smetsers, Radboud Universiteit Nijmegen

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the

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

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```

```
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```

```
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```

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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

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

That's all there is to it!

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

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

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

```
/*
 * e2p.h --- header file for the e2p library
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%
```

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

```
/*
 * Public include file for the UUID library
 *
 * Copyright (C) 1996, 1997, 1998 Theodore Ts'o.
 *
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```

```

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* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
* USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
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* %End-Header%

```

```

=====
e2fsprogs-1.46.5: lib/uuid/COPYING
util-linux-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
=====

```

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DAMAGE.

```

```
=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
=====
```

```
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 *
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 * this software for any purpose. It is provided "as is" without
 * express or implied warranty.
```

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

```
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 *
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 * express or implied warranty.
 *
 * This quote is just too good to not pass on:
 *
 * "BTW, I would have rejected the name Story Server because its
 * initials are SS, the name of the secret police in Nazi
 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
 *
 * Let no one say political correctness isn't dead...
```

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

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

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

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Juliusz Chroboczek

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

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```
=====
expat-2.5.0: COPYING
=====
```

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

```
/* pwait - wait for processes to terminate
 * extrace - trace exec() calls system-wide
 *
```

```
* Copyright (C) 2014-2019 Leah Neukirchen <leah@vuxu.org>
*
* hacked from sources of:
*/
/* FreeBSD: head/bin/pwait/pwait.c 245506 2013-01-16 18:15:25Z delphij */
/*-
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* 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.
*/
/* 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
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*

```



```

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* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
*/

```

```

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

```

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Version 2, June 1991

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```

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Ty Coon, President of Vice
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font-alias-1.0.4: cyrillic/fonts.alias
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```
fixed -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
variable *-helvetica-bold-r-normal-*-120-*-*--koi8-r
5x8 -misc-fixed-medium-r-normal--8-80-75-75-c-50-koi8-r
6x9 -misc-fixed-medium-r-normal--9-90-75-75-c-60-koi8-r
6x10 -cronyx-fixed-medium-r-normal--10-100-75-75-c-60-koi8-r
6x13 -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
6x13bold -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-koi8-r
7x14 -misc-fixed-medium-r-normal--14-130-75-75-c-70-koi8-r
```



```

7x14b -misc-fixed-bold-r-normal--14-130-75-75-c-70-koi8-r
8x13  -misc-fixed-medium-r-normal--13-120-75-75-c-80-koi8-r
8x16  -misc-fixed-medium-r-normal--16-160-75-75-c-80-koi8-r
8x16bold -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
9x15  -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
9x15bold -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
9x18  -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
9x18bold -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
10x16bold -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
10x20  -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
12x24  -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r
12x24bold -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
nil2   -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
koi-fixed -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
koi-variable -*helvetica-bold-r-normal-*--120-*--*--*--koi8-r
koi5x8   -misc-fixed-medium-r-normal--8-80-75-75-c-50-koi8-r
koi6x9   -misc-fixed-medium-r-normal--9-90-75-75-c-60-koi8-r
koi6x10  -cronyx-fixed-medium-r-normal--10-100-75-75-c-60-koi8-r
koi6x13  -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
koi6x13bold -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-koi8-r
koi7x14  -misc-fixed-medium-r-normal--14-130-75-75-c-70-koi8-r
koi7x14b -misc-fixed-bold-r-normal--14-130-75-75-c-70-koi8-r
koi8x13  -misc-fixed-medium-r-normal--13-120-75-75-c-80-koi8-r
koi8x16  -misc-fixed-medium-r-normal--16-160-75-75-c-80-koi8-r
koi8x16bold -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
koi9x15  -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
koi9x15bold -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
koi9x18  -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
koi9x18bold -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
koi10x16bold -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
koi10x20  -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
koi12x24  -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r
koi12x24bold -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
koinil2  -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
screen8x16 -screen-fixed-medium-r-normal--16-120-100-100-c-80-koi8-r
screen8x16b -screen-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r

```

```

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

```

```

lucidasans-bolditalic-8 -b&h-lucida-bold-i-normal-sans-8-80-75-75-p-49-iso8859-1
lucidasans-bolditalic-10 -b&h-lucida-bold-i-normal-sans-10-100-75-75-p-67-iso8859-1
lucidasans-bolditalic-12 -b&h-lucida-bold-i-normal-sans-12-120-75-75-p-79-iso8859-1
lucidasans-bolditalic-14 -b&h-lucida-bold-i-normal-sans-14-140-75-75-p-92-iso8859-1
lucidasans-bolditalic-18 -b&h-lucida-bold-i-normal-sans-18-180-75-75-p-119-iso8859-1
lucidasans-bolditalic-24 -b&h-lucida-bold-i-normal-sans-24-240-75-75-p-151-iso8859-1
lucidasans-bold-8 -b&h-lucida-bold-r-normal-sans-8-80-75-75-p-50-iso8859-1
lucidasans-bold-10 -b&h-lucida-bold-r-normal-sans-10-100-75-75-p-66-iso8859-1
lucidasans-bold-12 -b&h-lucida-bold-r-normal-sans-12-120-75-75-p-79-iso8859-1

```

```

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

```

```

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

```

```

fixed      -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1
variable   -*helvetica-bold-r-normal-*--120-*--*--*--iso8859-1
5x7        -misc-fixed-medium-r-normal--7-70-75-75-c-50-iso8859-1
5x8        -misc-fixed-medium-r-normal--8-80-75-75-c-50-iso8859-1
6x9        -misc-fixed-medium-r-normal--9-90-75-75-c-60-iso8859-1
6x10       -misc-fixed-medium-r-normal--10-100-75-75-c-60-iso8859-1

```

```

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

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

k14       -misc-fixed-medium-r-normal--14-*-***-jisx0208.1983-0
a14       -misc-fixed-medium-r-normal--14-*-***-iso8859-1
r14       -misc-fixed-medium-r-normal--14-*-***-jisx0201.1976-0
rk14      -misc-fixed-medium-r-normal--14-*-***-jisx0201.1976-0
r16       -sony-fixed-medium-r-normal--16-*-***-jisx0201.1976-0
rk16      -sony-fixed-medium-r-normal--16-*-***-jisx0201.1976-0
r24       -sony-fixed-medium-r-normal--24-*-***-jisx0201.1976-0
rk24      -sony-fixed-medium-r-normal--24-*-***-jisx0201.1976-0
kana14    -misc-fixed-medium-r-normal--14-*-***-jisx0201.1976-0
8x16kana  -sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
8x16romkana -sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
12x24kana -sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
12x24romkana -sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
kanji16   -jis-fixed-medium-r-normal--16-***-jisx0208.1983-0
kanji24   -jis-fixed-medium-r-normal--24-***-jisx0208.1983-0

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

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

-misc-fixed-medium-r-normal--7-50-100-100-c-50-iso8859-1
-misc-fixed-medium-r-normal--7-70-75-75-c-50-iso8859-1
-misc-fixed-medium-r-normal--8-60-100-100-c-50-iso8859-1

```

```

-misc-fixed-medium-r-normal--8-80-75-75-c-50-iso8859-1
-misc-fixed-medium-r-normal--9-80-100-100-c-60-iso8859-1
-misc-fixed-medium-r-normal--9-90-75-75-c-60-iso8859-1
-misc-fixed-medium-r-normal--10-70-100-100-c-60-iso8859-1
-misc-fixed-medium-r-normal--10-100-75-75-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--12-90-100-100-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--12-110-75-75-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--13-100-100-100-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1
-misc-fixed-bold-r-semicondensed--13-100-100-100-c-60-iso8859-1
-misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-iso8859-1
-misc-fixed-medium-r-normal--13-100-100-100-c-70-iso8859-1
-misc-fixed-medium-r-normal--13-120-75-75-c-70-iso8859-1
-misc-fixed-bold-r-normal--13-100-100-100-c-70-iso8859-1
-misc-fixed-bold-r-normal--13-120-75-75-c-70-iso8859-1
-misc-fixed-medium-r-normal--13-100-100-100-c-80-iso8859-1
-misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-1
-misc-fixed-bold-r-normal--13-100-100-100-c-80-iso8859-1
-misc-fixed-bold-r-normal--13-120-75-75-c-80-iso8859-1
-misc-fixed-medium-r-normal--14-110-100-100-c-70-iso8859-1
-misc-fixed-medium-r-normal--14-130-75-75-c-70-iso8859-1
-misc-fixed-medium-r-normal--15-120-100-100-c-90-iso8859-1
-misc-fixed-medium-r-normal--15-140-75-75-c-90-iso8859-1
-misc-fixed-bold-r-normal--15-120-100-100-c-90-iso8859-1
-misc-fixed-bold-r-normal--15-140-75-75-c-90-iso8859-1
-misc-fixed-medium-r-normal--20-140-100-100-c-100-iso8859-1
-misc-fixed-medium-r-normal--20-200-75-75-c-100-iso8859-1
-misc-fixed-medium-r-semicondensed--13-100-100-100-c-60-iso8859-8
-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-8
-misc-fixed-medium-r-normal--13-100-100-100-c-80-iso8859-8
-misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-8
-sony-fixed-medium-r-normal--16-150-75-75-c-80-iso8859-1
-sony-fixed-medium-r-normal--16-120-100-100-c-80-iso8859-1
-sony-fixed-medium-r-normal--16-150-75-75-c-80-jisx0201.1976-0
-sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
-sony-fixed-medium-r-normal--24-230-75-75-c-120-iso8859-1
-sony-fixed-medium-r-normal--24-170-100-100-c-120-iso8859-1
-sony-fixed-medium-r-normal--24-230-75-75-c-120-jisx0201.1976-0
-sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
-jis-fixed-medium-r-normal--16-110-100-100-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--16-150-75-75-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-170-100-100-c-240-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-230-75-75-c-240-jisx0208.1983-0

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

lucidasans-bolditalic-8 -b&h-lucida-bold-i-normal-sans-11-80-100-100-p-69-iso8859-1
lucidasans-bolditalic-10

```

-b&h-lucida-bold-i-normal-sans-14-100-100-100-p-90-iso8859-1
lucidasans-bolditalic-12

-b&h-lucida-bold-i-normal-sans-17-120-100-100-p-108-iso8859-1
lucidasans-bolditalic-14

-b&h-lucida-bold-i-normal-sans-20-140-100-100-p-127-iso8859-1
lucidasans-bolditalic-18

-b&h-lucida-bold-i-normal-sans-25-180-100-100-p-159-iso8859-1
lucidasans-bolditalic-24

-b&h-lucida-bold-i-normal-sans-34-240-100-100-p-215-iso8859-1
lucidasans-bold-8 -b&h-lucida-bold-r-normal-sans-11-80-100-100-p-70-iso8859-1
lucidasans-bold-10 -b&h-lucida-bold-r-normal-sans-14-100-100-100-p-89-iso8859-1
lucidasans-bold-12 -b&h-lucida-bold-r-normal-sans-17-120-100-100-p-108-iso8859-1
lucidasans-bold-14 -b&h-lucida-bold-r-normal-sans-20-140-100-100-p-127-iso8859-1
lucidasans-bold-18 -b&h-lucida-bold-r-normal-sans-25-180-100-100-p-158-iso8859-1
lucidasans-bold-24 -b&h-lucida-bold-r-normal-sans-34-240-100-100-p-216-iso8859-1
lucidasans-italic-8 -b&h-lucida-medium-i-normal-sans-11-80-100-100-p-62-iso8859-1
lucidasans-italic-10 -b&h-lucida-medium-i-normal-sans-14-100-100-100-p-80-iso8859-1
lucidasans-italic-12 -b&h-lucida-medium-i-normal-sans-17-120-100-100-p-97-iso8859-1
lucidasans-italic-14 -b&h-lucida-medium-i-normal-sans-20-140-100-100-p-114-iso8859-1
lucidasans-italic-18 -b&h-lucida-medium-i-normal-sans-25-180-100-100-p-141-iso8859-1
lucidasans-italic-24 -b&h-lucida-medium-i-normal-sans-34-240-100-100-p-192-iso8859-1
lucidasans-8 -b&h-lucida-medium-r-normal-sans-11-80-100-100-p-63-iso8859-1
lucidasans-10 -b&h-lucida-medium-r-normal-sans-14-100-100-100-p-80-iso8859-1
lucidasans-12 -b&h-lucida-medium-r-normal-sans-17-120-100-100-p-96-iso8859-1
lucidasans-14 -b&h-lucida-medium-r-normal-sans-20-140-100-100-p-114-iso8859-1
lucidasans-18 -b&h-lucida-medium-r-normal-sans-25-180-100-100-p-142-iso8859-1
lucidasans-24 -b&h-lucida-medium-r-normal-sans-34-240-100-100-p-191-iso8859-1
lucidasanstypewriter-bold-8

-b&h-lucidatypewriter-bold-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-bold-10

-b&h-lucidatypewriter-bold-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-bold-12

-b&h-lucidatypewriter-bold-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-bold-14

-b&h-lucidatypewriter-bold-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-bold-18

-b&h-lucidatypewriter-bold-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-bold-24

-b&h-lucidatypewriter-bold-r-normal-sans-34-240-100-100-m-200-iso8859-1
lucidasanstypewriter-8

-b&h-lucidatypewriter-medium-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-10

-b&h-lucidatypewriter-medium-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-12

-b&h-lucidatypewriter-medium-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-14

-b&h-lucidatypewriter-medium-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-18

-b&h-lucidatypewriter-medium-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-24

```
-b&h-lucidatypewriter-medium-r-normal-sans-34-240-100-100-m-200-iso8859-1
```

```
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fontconfig-2.13.1: COPYING  
=====
```

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

```
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 * fontconfig/src/fcfreeType.c  
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*/

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

/*

* This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
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 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an

```

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

```

```

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

```

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

```
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*/

```

```

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

```

```

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```

```

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

```

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```
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```

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

That's all there is to it!

```
=====
gcc-runtime-11.4.0: COPYING.RUNTIME
libgcc-11.4.0: COPYING.RUNTIME
=====
```

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

```
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*/
```

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

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glibc-2.35: LICENSES
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```
=====
glibc-2.35: posix/rxspencer/COPYRIGHT
=====
```

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```
=====  
gmp-6.2.1: COPYINGv3  
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```
=====
gnutls-3.7.4: LICENSE
=====
```

```
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iptables-1.8.7: iptables/iptables.c, 13-25
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krb5-1.17.2: NOTICE
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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

```
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

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

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

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libdaemon-0.14: libdaemon/daemon.h, 9-21
=====
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they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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How to Apply These Terms to Your New Libraries

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

That's all there is to it!

```
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strategy to use in any particular case, based on the explanations below.

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

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using

a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) 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.
- d) 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.
- e) 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 materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major

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libglu-9.0.2: include/GL/glu.h, 1-29
libglu-9.0.2: src/libtess/tess.c, 1-29
=====
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=====

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

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

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

/* idn2.h - header file for idn2
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[1] <https://gitlab.freedesktop.org/libinput/libinput/blob/main/include/linux/input.h>

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

```
/*
```

```
* cdjpeg.h
```

```
*
```

```
* This file was part of the Independent JPEG Group's software:
```

```
* Copyright (C) 1994-1997, Thomas G. Lane.
```

```

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

```

```

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

```

```

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

```

```

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

```

```

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* djpeg.c
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```

```

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

```

```

/*
    Unix SMB/CIFS implementation.

    Python interface to ldb.

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

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*/

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

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

/*
    Unix SMB/CIFS implementation.
    simple ldb tdb dump util
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Email domain: gmail.com

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 libsodium-1.0.18: LICENSE
 =====

```
/*
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 *
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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
=====

```

```

/*
  Unix SMB/CIFS implementation.

```

Samba utility functions

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

```

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```

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

```

```

/*

```

```

    Unix SMB/CIFS implementation.
    simple tdb dump util
    Copyright (C) Andrew Tridgell                2001

```

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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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```
License along with this library; if not, see <http://www.gnu.org/licenses/>.
*/
```

```
=====
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 <a href="http://www.w3.org/TR/2004/REC-xml-20040204/">
http://www.w3.org/TR/2004/REC-xml-20040204/</a>. An intro to XML
(that I really like) can be found at
<a href="http://skew.org/xml/tutorial/">http://skew.org/xml/tutorial</a>.
```

```
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, 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). 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++.
 TinyXML++ (<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.

<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:

- 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.
- If the declaration tag is read, and it has an `encoding="UTF-8"`, then TinyXML will read it as UTF-8.
- 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 [Skew.org link](http://skew.org/xml/tutorial/) 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 " " or " " 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 `TiXmlElement::SetCondenseWhiteSpace(bool)` to set the desired behavior.

The default is to condense white space.

If you change the default, you should call `TiXmlElement::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 `TiXmlElementHandle` class, the previous code reduces to:

```
@verbatim
TiXmlElementHandle 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.

Row and Column tracking

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()`.

Using and Installing

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.

Windows project file for VC6

```
<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>
```

Makefile

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: http://www.w3.org/TR/2004/REC-xml-20040204/

I also recommend "XML Pocket Reference" by Robert Eckstein and published by OReilly...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

Lee Thomason, Yves Berquin, Andrew Ellerton
*/

=====
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=====

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*/

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

/*
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*/
```

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

```
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-----
```

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

```
\input texinfo          @c -*-texinfo-*-
@comment %**start of header
@setfilename libunistring.info
@documentencoding UTF-8
```

```

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

@include version.texi

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

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

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

```

```
@end ifinfo
@ifnotinfo
@macro posixfunc(func)
@uref{@value{POSIXURL}/functions/\func\.html,,@code{\func\}}
@end macro
@end ifnotinfo

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

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

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

@ifinfo
This manual is for GNU libunistring.

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

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@end ignore
@end ifinfo

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

@ifnohtml
@page
@vskip 0pt plus 1filll
@c @insertcopying
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@end ifnohtml
@end titlepage

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```

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@top GNU libunistring
@end ifnottex

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* Conventions::         Conventions used in this manual
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* unistr.h::           Elementary Unicode string functions
* uniconv.h::         Conversions between Unicode and encodings
* unistdio.h::        Output with Unicode strings
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* unictype.h::        Unicode character classification and properties
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* Locale encodings::  What is a locale encoding?
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@end menu

@node Introduction

@chapter Introduction

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

It consists of the following parts:

@table @code

@item <unistr.h>


```

elementary string functions
@item <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}

@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 `{LC_CTYPE}` category.

@item

The sorting rules for text. This is the `{LC_COLLATE}` category.

@item

The language specific translations of messages. This is the `{LC_MESSAGES}` category.

@item

The formatting rules for numbers, such as the decimal separator. This is the `{LC_NUMERIC}` category.

@item

The formatting rules for amounts of money. This is the `{LC_MONETARY}` category.

@item

The formatting of date and time. This is the `{LC_TIME}` category.

@end itemize

@cindex locale encoding

In particular, the `{LC_CTYPE}` category of the current locale determines the character encoding. This is the encoding of `{char *}` strings. We also call it the `'locale encoding'`. GNU libunistring has a function, `{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 `{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

gnulib 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

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

@item

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

@item

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

@item

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

@item

gnulib has functions `@func{mbscasemp}`, `@func{mbsncasemp}`, `@func{mbspcasemp}`, and `@func{mbscasestr}` that are like `@posixfunc{strcasemp}`, `@posixfunc{strncasemp}`, and `@posixfunc{strcasestr}`, but work in multibyte locales. Still, the function `@code{ulc_casemp}` is preferable to these functions; see below.

@end itemize

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

@itemize @bullet

@item

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

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

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

`@sc{LATIN SMALL LETTER DZ WITH CARON}` (dz).

@item

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

@item

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

This is not true for the Greek sigma: `@sc{GREEK CAPITAL LETTER SIGMA}` is

the uppercase of both `@sc{GREEK SMALL LETTER SIGMA}` and

`@sc{GREEK SMALL LETTER FINAL SIGMA}`.

@item

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

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

@end itemize

The correct way to deal with this problem is

@enumerate

```

@item
to provide functions for titlecasing, as well as for upper- and
lowercasing,
@item
to view case transformations as functions that operates on strings,
rather than on characters.
@end enumerate

```

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

```

@node Unicode strings
@section Unicode strings

```

libunistring supports Unicode strings in three representations:

```

@cindex UTF-8, strings
@cindex UTF-16, strings
@cindex UTF-32, strings
@itemize @bullet
@item
UTF-8 strings, through the type @samp{uint8_t *}. The units are bytes
(@code{uint8_t}).
@item
UTF-16 strings, through the type @samp{uint16_t *}, The units are 16-bit
memory words (@code{uint16_t}).
@item
UTF-32 strings, through the type @samp{uint32_t *}. The units are 32-bit
memory words (@code{uint32_t}).
@end itemize

```

As with C strings, there are two variants:

```

@itemize @bullet
@item
Unicode strings with a terminating NUL character are represented as
a pointer to the first unit of the string. There is a unit containing
a 0 value at the end. It is considered part of the string for all
memory allocation purposes, but is not considered part of the string
for all other logical purposes.
@item
Unicode strings where embedded NUL characters are allowed. These
are represented by a pointer to the first unit and the number of units
(not bytes!) of the string. In this setting, there is no trailing
zero-valued unit used as ``end marker''.
@end itemize

```

```

@node Conventions
@chapter Conventions

```

This chapter explains conventions valid throughout the libunistring library.

@cindex argument conventions

Variables of type `@code{char *}` denote C strings in locale encoding. See [@ref{Locale encodings}](#).

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

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

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

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

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

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

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

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

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

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

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

@cindex return value conventions

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

Functions returning a string result take a

`@code{(@var{resultbuf}, @var{lengthp})}`

argument pair. If `@var{resultbuf}` is not NULL and the result fits into `@code{*@var{lengthp}}` units, it is put in `@var{resultbuf}`, and `@var{resultbuf}` is returned. Otherwise, a freshly allocated string

is returned. In both cases, `*@var{lengthp}` is set to the length (number of units) of the returned string. In case of error, NULL is returned and `errno` is set.

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

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

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

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

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

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

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

```
@node Compiler options
@section Compiler options
```

Let's denote as `LIBUNISTRING_PREFIX` the value of the `--prefix`

option that you passed to `configure` while installing this package. If you didn't pass any `--prefix` option, then the package is installed in `/usr/local`.

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

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

`index` compiler options

So that the compiler finds the include files, you have to pass it the option `-I$(LIBUNISTRING_INCLUDEDIR)`.

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

`node` Include files

`section` Include files

Most of the include files have been presented in the introduction, see [Introduction](#), and subsequent detailed chapters.

Another include file is `<unistring/version.h>`. It contains the version number of the `libunistring` library.

`deftypevr` Macro `int _LIBUNISTRING_VERSION`

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

`deftypevr` Constant `int _libunistring_version`

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

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

@node Autoconf macro
@section Autoconf macro

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

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

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

@itemize @bullet
@item

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

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

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

@node Reporting problems
@section Reporting problems

@cindex bug reports
@cindex bug tracker

@cindex mailing list

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

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

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

@node More functionality

@chapter More advanced functionality

@cindex bidirectional reordering

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

@cindex rendering

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

@include wchar_t.texi

@include char32_t.texi

@node Licenses

@appendix Licenses

@cindex Licenses

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

@itemize @bullet

@item

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

@itemize @bullet

@item @minus{}

the terms of the GNU Lesser General Public License (LGPL) version 3 or (at your option) any later version, or

@item @minus{}

the terms of the GNU General Public License (GPL) version 2 or (at your option) any later version, or

@item @minus{}

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@end itemize

You find the GNU LGPL version 3 in @ref{GNU LGPL}. This license is based on the GNU GPL version 3, see @ref{GNU GPL}.

@*

You can find the GNU GPL version 2 at

@url{https://www.gnu.org/licenses/old-licenses/gpl-2.0.html}.

@*

Note: This dual license makes it possible for the @code{libunistring} library to be used by packages under GPLv2 or GPLv2+ licenses, in particular. See the table in @url{https://www.gnu.org/licenses/gpl-faq.html#AllCompatibility}.

@item

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@end itemize

@menu

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

@end menu

@page

@node GNU GPL

@appendixsec GNU GENERAL PUBLIC LICENSE

@cindex GPL, GNU General Public License

@cindex License, GNU GPL

@include gpl.texi

@page

@node GNU LGPL

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, GNU Lesser General Public License

@cindex License, GNU LGPL

@include lgpl.texi

```
@page
@node GNU FDL
@appendixsec GNU Free Documentation License
@cindex FDL, GNU Free Documentation License
@cindex License, GNU FDL
@include fdl.texi
```

```
@node Index
@unnumbered Index
```

```
@printindex cp
```

```
@bye
```

```
@c Local Variables:
@c indent-tabs-mode: nil
@c whitespace-check-buffer-indent: nil
@c End:
```

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

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```
=====
liburcu-0.13.2: LICENSE
=====
```

Userspace RCU library licensing
Mathieu Desnoyers

September 3, 2012

* LGPLv2.1

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

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

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

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

See `lgpl-relicensing.txt` for details.

* MIT-style license :

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

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

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

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

MIT/X11 (BSD like) license apply to:

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


* GPLv2

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

* GPLv3 (or later)

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

m4/ax_tls.m4

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

```
/*
 * urcu.h
 *
 * Userspace RCU header
 *
 * Copyright (c) 2009 Mathieu Desnoyers <mathieu.desnoyers@efficios.com>
 * Copyright (c) 2009 Paul E. McKenney, IBM Corporation.
 *
 * LGPL-compatible code should include this header with :
 *
 * #define _LGPL_SOURCE
 * #include <urcu.h>
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Lesser General Public
 * License as published by the Free Software Foundation; either
 * version 2.1 of the License, or (at your option) any later version.
 *
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 *
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 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 *
 * IBM's contributions to this file may be relicensed under LGPLv2 or later.
 */
```

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

```

/*
 * Copyright (c) 1991-1994 by Xerox Corporation. All rights reserved.
 * Copyright (c) 1996-1999 by Silicon Graphics. All rights reserved.
 * Copyright (c) 1999-2004 Hewlett-Packard Development Company, L.P.
 * Copyright (c) 2009 Mathieu Desnoyers
 *
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 *
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 * for any purpose, provided the above notices are retained on all copies.
 * 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 libatomic_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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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the

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

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

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

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

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

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

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

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```

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```
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libuv-1.44.2: LICENSE
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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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BSD3

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````

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libxinerama-1.1.4: src/Xinerama.c, 2-25
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=====
libxml2-2.9.14: hash.c, 6-15
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libxml2-2.9.14: list.c, 4-13
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libxml2-2.9.14: trio.c, 5-14
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=====
libxtst-1.2.3: src/XTest.c, 2-32
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lsof-4.94.0: 00README, 645-679
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lzo-2.10: src/lzo_init.c, 5-25
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| +-----+-----+-----+-----+ | | | |
| Ext headers | include/GL/glext.h, | Khronos | |
| | include/GL/glxext.h | | |
| +-----+-----+-----+-----+ | | | |
| GLX client code | src/glx/ | SGI Free Software License B | |
| +-----+-----+-----+-----+ | | | |
| C11 thread | include/c11/threads*.h | Boost (permissive) | |
| emulation | | | |
| +-----+-----+-----+-----+ | | | |

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## Source Code
```

```
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```

```
* https://github.com/eclipse/mosquitto
```

```
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```

```
This project makes use of the follow third party projects.
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cJSON (1.7.x)
```

```
* License: MIT
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```
* Project: https://github.com/DaveGamble/cJSON
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```
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```

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* Project: https://github.com/warmcat/libwebsockets
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openssl (1.1.1)
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 * Source: <https://github.com/openssl/openssl>

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Anthony G. Basile
Arvid Picciani
Bobby Bingham
Boris Brezillon
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=====
nettle-3.7.3: serpent-decrypt.c, 14-36
nettle-3.7.3: serpent-set-key.c, 14-36
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```

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```
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```

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

```

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```

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

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```

```

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

```

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

```
DIRS = config pr lib
```

```

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

```

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

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

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

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

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

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

```
else
```

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

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```

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#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
=====

/*
** 2001-09-15
**
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=====
x11vnc-0.9.16+git: src/x11vnc.h, 1-31
=====
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```
=====
xcb-util-0.4.0: src/xcb_aux.c, 1-30
=====
```

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

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=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====
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=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====
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=====
xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30
=====
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=====
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24
=====
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=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====

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

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```
=====
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
=====
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=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
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=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====
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=====
xcb-util-wm-0.4.1: iccwm/xcb_iccwm.h, 4-31
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```
=====
xterm-372: xterm.h, 3-31
=====
```

```
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```

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

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

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

```
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```

```
#ifndef _LIBC
```

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=====
zlib-1.2.11: zlib.h, 6-23
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Jean-loup Gailly Mark Adler
jlgoup@gzip.org madler@alumni.caltech.edu

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zstd-1.5.2: LICENSE
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Also add information on how to contact you by electronic and paper mail.

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

```
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```

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

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

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