

R&S®SMA100B

RF and Microwave Signal Generator Open Source Acknowledgment



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Version 09.00

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

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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
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
ampproject/ remapping	2.1.2	Apache License 2.0
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/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
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

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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
arg	4.1.3	MIT License
argparse	1.0.10	MIT License
argparse	2.0.1	Python-2.0
ASN.1 Compiler	1.0	BSD 2-clause "Simplified" License
async	0.9.2	MIT License
asynckit	0.4.0	MIT License
at-least-node	1.0.0	ISC License
avahi	0.8	GPL-2.0-or-later License AND LGPL-2.1-or-later License
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
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babel/core	7.17.8	MIT License
babel/generator	7.17.7	MIT License
babel/helper-annotate-as-pure	7.16.7	MIT License
babel/helper-builder-binary-assignment-operator-visitor	7.16.7	MIT License
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babel/helper-create-regexp-features-plugin	7.17.0	MIT License
babel/helper-define-polyfill-provider	0.3.1	MIT License
babel/helper-environment-visitor	7.16.7	MIT License
babel/helper-explode-assignable-expression	7.16.7	MIT License
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babel/plugin-proposal-numeric-separator	7.16.7	MIT License
babel/plugin-proposal-object-rest-spread	7.16.7	MIT License
babel/plugin-proposal-optional-catch-binding	7.16.7	MIT License
babel/plugin-proposal-optional-chaining	7.16.7	MIT License
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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

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babel/types	7.17.0	MIT License
balanced-match	1.0.2	MIT License
base-files	3.0.14	GPL-2.0-only License
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base64-js	1.5.1	MIT License
bcoe/v8-coverage	0.2.3	MIT License
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binary-extensions	2.2.0	MIT License
binutils	2.38	GPL-3.0-only License
bl	4.1.0	MIT License
bluebird	3.7.1	MIT License
boost	1.78.0	Boost Software License 1.0 AND MIT License AND Python License 2.0
brace-expansion	1.1.11	MIT License
braces	3.0.2	MIT License
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browser-process-hrtime	1.0.0	BSD 2-clause "Simplified" License
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bser	2.1.1	Apache License 2.0
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buffer-from	1.1.2	MIT License
busybox	1.35.0	GPL-2.0-only License AND bzip2 License
busybox-inittab	1.35.0	GPL-2.0-only License
bzip2	1.0.8	bzip2 License
call-bind	1.0.2	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	CC-BY-4.0

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chalk	2.4.2	MIT License
chalk	4.1.0	MIT License
char-regex	1.0.2	MIT License
chokidar	3.5.3	MIT 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
classlist.js	1.1.20150312	Public Domain
cli-cursor	3.1.0	MIT License
cli-spinners	2.6.1	MIT License
cliui	6.0.0	ISC License
clone	1.0.4	MIT License
clone-deep	4.0.1	MIT License
co	4.6.0	MIT License
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color-convert	2.0.1	MIT License
color-name	1.1.3	MIT License
color-name	1.1.4	MIT License
combined-stream	1.0.8	MIT License
commander	2.20.3	MIT License
comondir	1.0.1	MIT License
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core-js-compat	3.21.1	MIT License

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cpprest	2.10.18	MIT License
cppzmq	4.7.1	MIT License
create-require	1.1.1	MIT License
cross-spawn	7.0.3	MIT License
cssom	0.3.8	MIT License
cssom	0.4.4	MIT License
cssstyle	2.3.0	MIT License
curl	7.82.0	MIT-open-group License
cypress/ webpack-preprocessor	5.11.1	MIT License
data-urls	2.0.0	MIT License
dbus	1.14.0	Academic Free License v2.1 OR GPL-2.0-or-later License
dcplib	0.2	BSD 3-clause "New" or "Revised" License
debug	4.3.3	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
detect-newline	3.1.0	MIT License
dialog	1.3-20210509	LGPL-2.1-only License
diff	4.0.2	BSD 3-clause "New" or "Revised" License
diff-sequences	27.5.1	MIT License
dmidecode	3.3	GPL-2.0-only License
doctrine	3.0.0	Apache License 2.0
domexception	2.0.1	MIT License
dofstools	4.2	GPL-3.0-only License

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dotenv	10.0.0	BSD 2-clause "Simplified" License
double-conversion (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)
e2fsprogs	1.46.1	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
e2fsprogs	1.46.5	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
Eigen	3.4.0	Mozilla Public License 2.0
ejs	3.1.6	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
encodings	1.0.6	Public Domain
enhanced-resolve	5.9.2	MIT License
enquirer	2.3.6	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

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escape-string-regexp	4.0.0	MIT License
escodegen	2.0.0	BSD 2-clause "Simplified" License
eslint	8.7.0	MIT License
eslint-scope	5.1.1	BSD 2-clause "Simplified" License
eslint-scope	7.1.1	BSD 2-clause "Simplified" License
eslint-utils	3.0.0	MIT License
eslint-visitor-keys	2.1.0	Apache License 2.0
eslint-visitor-keys	3.3.0	Apache License 2.0
eslint/eslintrc	1.2.1	MIT License
espre	9.3.1	BSD 2-clause "Simplified" License
esprima	4.0.1	BSD 2-clause "Simplified" License
esquery	1.4.0	BSD 3-clause "New" or "Revised" License
esrecurse	4.3.0	BSD 2-clause "Simplified" License
estaverse	4.3.0	BSD 2-clause "Simplified" License
estaverse	5.3.0	BSD 2-clause "Simplified" License
esutils	2.0.3	BSD 2-clause "Simplified" License
eudev	3.2.10	GPL-2.0-or-later License AND LGPL-2.1-or-later License
events	3.3.0	MIT License
execa	5.1.1	MIT License
exit	0.1.2	MIT License
expat	2.4.7	MIT License
Expat XML Parser Toolkit	2.4.8	MIT License
expect	27.5.1	MIT License
extrace	0.9	BSD 2-Clause License AND GPL-2.0-or-later 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
fb-watchman	2.0.1	Apache License 2.0

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figures	3.2.0	MIT License
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file-saver	2.0.5	MIT License
filelist	1.0.2	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
font-alias	1.0.4	MIT License
font-util	1.3.3	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
fontconfig	2.13.1	MIT License AND MIT License AND Public Domain
fork-ts-checker- webpack-plugin	6.2.10	MIT License
form-data	3.0.1	MIT License
formfactor	0.0	MIT License
freetype	2.11.1	Freetype Project License OR GPL-2.0-or-later License
fs-extra	9.1.0	MIT License
fs-monkey	1.0.3	The Unlicense
fs.realpath	1.0.0	ISC License
function-bind	1.1.1	MIT License
functional-red- black-tree	1.0.1	MIT License
fuse	2.9.9	GPL-2.0-only License AND LGPL-2.0-only License

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gcc-runtime	11.3.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1
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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	6.0.1	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
globals	11.12.0	MIT License
globals	13.13.0	MIT License
gmp	6.2.1	GPL-2.0-or-later License OR LGPL-3.0-or-later License
gnutls	3.7.4	GPL-3.0-or-later License AND LGPL-2.1-or-later License
Google Breakpad crash reporting library	Chrome 58 branch	BSD 3-clause "New" or "Revised" License
Google commandline flags module for C++	2.0	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	3.5.2 & 3.9.1	BSD 3-clause "New" or "Revised" License

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grub	2.06	GPL-3.0-only License
gtest	1.8.1	BSD 3-clause "New" or "Revised" 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
haveged	1.9.18	GPL-3.0-only 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-proxy-agent	4.0.1	MIT License
https-proxy-agent	5.0.0	MIT License
human-signals	2.1.0	Apache License 2.0
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
icu	70.1	ICU License
identity-obj-proxy	3.0.0	MIT License
ieee754	1.2.1	BSD 3-clause "New" or "Revised" License
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ignore	5.2.0	MIT License
imlib2	1.7.1	Imlib2 License
import-fresh	3.3.0	MIT License
imurmurhash	0.1.4	MIT License
inflight	1.0.6	ISC License
inherits	2.0.4	ISC License

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is-ci	3.0.1	MIT License
is-core-module	2.8.1	MIT License
is-docker	2.2.1	MIT License
is-extglob	2.1.1	MIT License
is-fullwidth-code-point	3.0.0	MIT License
is-generator-fn	2.1.0	MIT License
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is-plain-object	2.0.4	MIT License
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is-unicode-supported	0.1.0	MIT License
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istanbuljs/ schema	0.1.3	MIT License
jake	10.8.4	Apache License 2.0
jansson	2.13.1	MIT License
jasmine-marbles	0.8.4	MIT License
jbig2dec	0.17	AGPL-3.0-or-later License
jest-circus	27.5.1	MIT License
jest-config	27.2.2	MIT License
jest-diff	27.5.1	MIT License
jest-docblock	27.5.1	MIT License
jest-each	27.5.1	MIT License
jest-environ- ment-jsdom	27.5.1	MIT License
jest-environ- ment-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

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jest/environment	27.5.1	MIT License
jest/fake-timers	27.5.1	MIT License
jest/globals	27.5.1	MIT License
jest/reporters	27.2.2	MIT License
jest/source-map	27.5.1	MIT License
jest/test-result	27.2.2	MIT License
jest/test-result	27.5.1	MIT License
jest/test-sequencer	27.5.1	MIT License
jest/transform	27.5.1	MIT License
jest/types	27.5.1	MIT License
jridgewell/ resolve-uri	3.0.5	MIT License
jridgewell/sour- cemap-codec	1.4.11	MIT License
jridgewell/trace- mapping	0.3.4	MIT License
js-tokens	4.0.0	MIT License
js-yaml	3.14.1	MIT License
js-yaml	4.1.0	MIT License
jsdom	16.7.0	MIT License
jsesc	0.5.0	MIT License
jsesc	2.5.2	MIT License
json-parse-bet- ter-errors	1.0.2	MIT License
json-parse-even- better-errors	2.3.1	MIT License
json-schema-tra- verse	0.4.1	MIT License
json-schema-tra- verse	1.0.0	MIT License
json-stable- stringify-without- jsonify	1.0.1	MIT License
json5	1.0.1	MIT License
json5	2.2.1	MIT License
jsonc-parser	3.0.0	MIT License
jsonfile	6.1.0	MIT License

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kind-of	6.0.3	MIT License
kissfft	1.0	BSD 3-clause "New" or "Revised" License
kmod	29	GPL-2.0-or-later License AND LGPL-2.1-or-later License
krb5	1.17.2	MIT License
lcms	2.13.1	MIT License
leven	3.1.0	MIT License
levn	0.3.0	MIT License
levn	0.4.1	MIT License
libarchive	3.6.1	BSD 2-Clause License
libcap	2.63	BSD 3-Clause License OR GPL-2.0-only License
libdaemon	0.14	LGPL-2.1-or-later License
libdrm	2.4.110	MIT License
libedit	20210910-3.1	BSD 3-Clause License
libepoxy	1.5.9	MIT License
libev	4.33	BSD 2-Clause License OR GPL-2.0-or-later License
libevdev	1.12.1	MIT License
libevent	2.1.12	BSD 3-Clause License AND MIT License
libffi	3.4.2	MIT License
libfontenc	1.1.4	MIT License
libftdi	1.4	LGPL-2.1-only License AND GPL-2.0-only License
libgcc	11.3.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1 AND GPL-3.0-only License
libgcrypt	1.9.4	GPL-2.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
libglu	9.0.2	MIT License
libgpg-error	1.44	GPL-2.0-or-later License AND LGPL-2.1-or-later License
libice	1.0.10	MIT License

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libidn2	2.3.2	(!GPL-2.0-or-later License OR LGPL-3.0-only License)) AND GPL-3.0-or-later License AND Unicode Data Files and Software License (2016)
libjpeg-turbo	2.1.3	BSD 3-Clause License
libldb	2.3.3	LGPL-3.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
libmcrypt	2.5.8	LGPL-2.1-only License
libnl	3.5.0	LGPL-2.1-only License
libnsl2	2.0.0	LGPL-2.1-only License
libpciaccess	0.16	MIT License AND MIT License AND
libpcre	8.45	BSD 3-Clause License
libpcre2	10.40	BSD 3-Clause License
libpng	1.6.37	libpng License
libsm	1.2.3	MIT License
libsodium	1.0.18	ISC License
libtalloc	2.3.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtdb	1.4.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtevent	0.10.2	LGPL-3.0-or-later License
libtirpc	1.3.2	BSD 3-Clause License
libunistring	1.0	LGPL-3.0-or-later License OR GPL-2.0-or-later License
libunwind	1.6.2	MIT License
liburcu	0.13.1	LGPL-2.1-or-later License AND MIT License
libusb1	1.0.26	LGPL-2.1-or-later License
libvncserver	0.9.13	GPL-2.0-only License
libx11	1.7.3.1	MIT License AND MIT License AND BSD-1-Clause License AND Historical Permission Notice and Disclaimer AND HPND-sell-variant License
libxau	1.0.9	MIT License

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libxaw	1.0.14	MIT License
libxcb	1.14	MIT License
libxcomposite	0.4.5	MIT License
libxcrypt	4.4.28	LGPL-2.1-only License
libxcvt	0.1.1	MIT License
libxdamage	1.1.5	MIT License
libxdmcp	1.1.3	MIT License
libxext	1.3.4	MIT License
libxfixed	6.0.0	MIT License
libxfont2	2.0.5	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
libxft	2.3.4	MIT License
libxi	1.8	MIT License AND MIT License AND
libxinerama	1.1.4	MIT License
libxkbcommon	1.4.1	MIT License AND MIT License AND
libxkbfile	1.1.0	MIT License
libxml2	2.9.14	MIT License
libxmu	1.1.3	MIT License AND MIT License AND
libxpm	3.5.13	MIT License
libxrandr	1.5.2	MIT License
libxrender	0.9.10	MIT License
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
license-server-webui	3.3.0	UNLICENSED
lines-and-columns	1.2.4	MIT License
linux	5.10	GPL-2.0-only License

Package	Version	License
linux-firmware-radeon	1.0	Firmware-amd 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
log-symbols	4.1.0	MIT License
lpkit-udev-common	1.0	MIT License
lru-cache	6.0.0	ISC License
lsuf	4.94.0	Spencer-94 License
lttng-ust	2.13.3	LGPL-2.1-or-later License AND MIT License AND GPL-2.0-only License
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
makeerror	1.0.12	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

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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
mime-types	2.1.35	MIT License
mimic-fn	2.1.0	MIT License
minimatch	3.0.4	ISC License
minimist	1.2.6	MIT License
minizip	2.10.1	zlib License
mkfontscale	1.2.2	MIT License
ms	2.1.2	MIT License
mtdev	1.1.6	MIT License
mtrace-ng	1.0	GPL-2.0-only License
mupdf	1.15.0	AGPL-3.0-only License
musl-libc	1.1.16	MIT License
natural-compare	1.4.0	MIT License
ncurses	6.3+20220423	MIT License
ncurses	6.3	MIT License
neo-async	2.6.2	MIT License
net-snmp	5.9.1	BSD 3-Clause License AND MIT License
netbase	6.3	GPL-2.0-only License
nettle	3.7.3	LGPL-3.0-or-later License OR GPL-2.0-or-later License
nghttp2	1.47.0	MIT License
nginx	1.20.1	BSD 2-Clause License
nghttp2/store	13.2.0	MIT License
ngx-translate/ core	13.0.0	MIT License
ngx-translate/ http-loader	6.0.0	MIT License
node-addon-api	3.2.1	MIT License
node-gyp-build	4.3.0	MIT License

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node-int64	0.4.0	MIT License
node-releases	2.0.2	MIT License
node-lib/fs.scan-dir	2.1.5	MIT License
node-lib/fs.stat	2.0.5	MIT License
node-lib/fs.walk	1.2.8	MIT License
normalize-path	3.0.0	MIT License
NotoSansUI-Bold	1.06	SIL Open Font License 1.1
NotoSansUI-BoldItalic	1.06	SIL Open Font License 1.1
NotoSansUI-Italic	1.06	SIL Open Font License 1.1
NotoSansUI-Regular	1.06	SIL Open Font License 1.1
novnc	1.3.0+git	MPL-2.0 License AND BSD 2-Clause License AND BSD 3-Clause License AND SIL Open Font License 1.1 AND CC-BY-3.0 License AND MIT License
npm-run-path	4.0.1	MIT 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
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

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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-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	3.0.5	Apache License 2.0
OpenSSL cryptographic library	3.0.0	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
p-limit	2.3.0	MIT License
p-locate	4.1.0	MIT License
p-try	2.2.0	MIT License
parcel/watcher	2.0.4	MIT License
parent-module	1.0.1	MIT License
parse-json	5.2.0	MIT License
parse5	5.1.1	MIT License
parse5	6.0.1	MIT License
path-exists	4.0.0	MIT License
path-is-absolute	1.0.1	MIT License
path-key	3.1.1	MIT License
path-parse	1.0.7	MIT License

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path-type	4.0.0	MIT License
pcimem	2.0	GPL-2.0-only License
pciutils	3.7.0	GPL-2.0-or-later License
PCRE library	8.45	BSD 3-clause "New" or "Revised" License
pcsc-lite	1.9.0	BSD 3-Clause License AND GPL-3.0-or-later License
phenomnomno-minal/tsquery	4.1.1	MIT License
php	8.1.12	PHP License v3.0
picocolors	1.0.0	ISC License
picomatch	2.3.1	MIT License
pirates	4.0.5	MIT License
pixman	0.40.0	MIT License AND MIT License AND Public Domain
pkg-dir	4.2.0	MIT License
POCO C++ libraries	1.11.0	Boost Software License 1.0
popt	1.18	MIT License
prelude-ls	1.1.2	MIT License
prelude-ls	1.2.1	MIT License
prettier	2.6.0	MIT License
pretty-format	27.5.1	MIT License
primeicons	4.1.0	MIT License
primeng	11.4.5	MIT License
protobuf	3.19.4	BSD 3-Clause License
psl	1.8.0	MIT License
Public Domain JSON Parser for C	unspecific	The Unlicense
punycode	2.1.1	MIT License
pure-ftpd	1.0.47	BSD Zero Clause License
qrencode	4.0.2	GNU Lesser General Public License v2.1
queue-microtask	1.2.3	MIT License
randombytes	2.1.0	MIT License

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RapidXml XML parser	1.13	Boost Software License 1.0
react-is	17.0.2	MIT 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-unicode-properties	10.0.1	MIT License
regenerator-runtime	0.13.9	MIT License
regenerator-transform	0.14.5	MIT License
regexp	3.2.0	MIT License
regexpu-core	5.0.1	MIT License
regjsen	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
require-directory	2.1.1	MIT License
require-from-string	2.0.2	MIT License
require-main-file-name	2.0.0	ISC License
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
reusify	1.0.4	MIT License
rgb	1.0.6	MIT License
rimraf	3.0.2	ISC License
Roboto-Bold	2.001150; 2014	Apache License 2.0
Roboto-BoldItalic	2.001150; 2014	Apache License 2.0
Roboto-Italic	2.001101; 2014	Apache License 2.0
Roboto-Medium	2.001152; 2014	Apache License 2.0

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Roboto-Medium-Italic	2.001152; 2014	Apache License 2.0
Roboto-Regular	2.001101; 2014	Apache License 2.0
RobotoCon-densed-Bold	2.001240; 2014	Apache License 2.0
RobotoCon-densed-BoldItalic	2.001240; 2014	Apache License 2.0
RobotoCon-densed-Italic	2.001240; 2014	Apache License 2.0
RobotoCon-densed-Regular	2.001201; 2014	Apache License 2.0
RobotoMono-Bold	2.000986; 2015	Apache License 2.0
RobotoMono-BoldItalic	2.000986; 2015	Apache License 2.0
RobotoMono-Italic	2.000986; 2015	Apache License 2.0
RobotoMono-Light	2.000986; 2015	Apache License 2.0
RobotoMono-LightItalic	2.000986; 2015	Apache License 2.0
RobotoMono-Regular	2.000986; 2015	Apache License 2.0
rpcbind	1.2.6	BSD 3-Clause License
rs-box/base	1.0.0-alpha.12	LicenseRef-LICENSE
rs-box/button	1.0.0-alpha.12	LicenseRef-LICENSE
rs-box/checkbox	1.0.0-alpha.5	LicenseRef-LICENSE
rs-box/dropdown	1.0.0-alpha.13	LicenseRef-LICENSE
rs-box/input	1.0.0-alpha.9	LicenseRef-LICENSE
rs-box/radio	1.0.0-alpha.9	LicenseRef-LICENSE
rs-box/themes	1.0.0-alpha.11	LicenseRef-LICENSE
rs/button	3.1.9	LicenseRef-LICENSE
rs/checkbox	3.1.10	LicenseRef-LICENSE
rs/component-registration	3.1.9	LicenseRef-LICENSE
rs/dropdown	3.2.2	LicenseRef-LICENSE
rs/input	3.2.9	LicenseRef-LICENSE
rs/popover	3.1.10	LicenseRef-LICENSE
rs/radio-button	4.0.2	LicenseRef-LICENSE

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rs/themes	3.0.6	LicenseRef-LICENSE
rs/webwidgets-shared	3.2.2	LicenseRef-LICENSE
rs/webwidgets-shared	4.0.2	LicenseRef-LICENSE
rsmic	git	GPL-2.0-only License
rssh	2.3.4	BSD 2-Clause License
run-parallel	1.2.0	MIT License
rxjs	6.6.7	Apache License 2.0
rxjs	7.4.0	Apache License 2.0
rxjs-for-await	0.0.2	MIT License
safe-buffer	5.1.2	MIT License
safe-buffer	5.2.1	MIT License
safer-buffer	2.1.2	MIT License
samba	4.14.13	GPL-3.0-or-later License AND LGPL-3.0-or-later License AND GPL-2.0-or-later License
Samples for Win32 desktop apps using toast notifications	Git commit 99e0fd3628c58150cf75db8f75aaf4810212cf61 (2020-07-21)	MIT License
saxes	5.0.1	ISC License
schema-utils	2.7.0	MIT License
schema-utils	3.1.1	MIT License
schematics/angular	13.2.6	MIT License
semver	6.3.0	ISC License
semver	7.0.0	ISC License
semver	7.3.4	ISC License
semver	7.3.5	ISC License
serialize-javascript	6.0.0	BSD 3-clause "New" or "Revised" License
set-blocking	2.0.0	ISC License
setxkbmap	1.3.2	MIT License
shadow	4.11.1	BSD 3-Clause License
shadow-securetty	4.6	MIT License

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shallow-clone	3.0.1	MIT License
shebang-command	2.0.0	MIT License
shebang-regex	3.0.0	MIT License
signal-exit	3.0.7	ISC License
sinonjs/commons	1.8.3	BSD 3-clause "New" or "Revised" License
sinonjs/fake-timers	8.1.0	BSD 3-clause "New" or "Revised" License
slash	3.0.0	MIT License
smartmontools	7.3	GPL-2.0-only License
source-map	0.5.7	BSD 3-clause "New" or "Revised" License
source-map	0.6.1	BSD 3-clause "New" or "Revised" License
source-map	0.7.3	BSD 3-clause "New" or "Revised" License
source-map-support	0.5.21	MIT License
sourcemap-codec	1.4.8	MIT License
sprintf-js	1.0.3	BSD 3-clause "New" or "Revised" License
SQLite	3.38.1	SQLITE Copyright Notice
sqlite3	3.38.5	Public Domain
stack-utils	2.0.5	MIT License
strace	5.16	LGPL-2.1-or-later License AND GPL-2.0-or-later License
string-length	4.0.2	MIT License
string-width	4.2.3	MIT License
string_decoder	1.3.0	MIT License
strip-ansi	6.0.1	MIT License
strip-bom	3.0.0	MIT License
strip-bom	4.0.0	MIT License
strip-final-new-line	2.0.0	MIT License
strip-json-comments	3.1.1	MIT License
supports-color	5.5.0	MIT License
supports-color	7.2.0	MIT License
supports-color	8.1.1	MIT License

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supports-hyperlinks	2.2.0	MIT License
supports-pre-serve-symlinks-flag	1.0.0	MIT License
swc-node/core	1.8.2	MIT License
swc-node/registry	1.4.2	MIT License
swc-node/source-map-support	0.1.11	MIT License
swc/core	1.2.160	Apache License 2.0
swc/core-linux-x64-gnu	1.2.160	Apache-2.0 AND MIT License
swc/core-linux-x64-musl	1.2.160	Apache-2.0 AND MIT License
symbol-tree	3.2.4	MIT License
sysstat	12.4.5	GPL-2.0-or-later License
tapable	1.1.3	MIT License
tapable	2.2.1	MIT License
terminal-link	2.1.1	MIT License
terser	5.12.1	BSD 2-clause "Simplified" License
terser-webpack-plugin	5.3.1	MIT License
test-exclude	6.0.0	ISC License
text-table	0.2.0	MIT License
throat	6.0.1	MIT License
tiff	4.3.0	BSD 2-Clause License
tmp	0.2.1	MIT License
tmpl	1.0.5	BSD 3-clause "New" or "Revised" License
to-fast-properties	2.0.0	MIT License
to-regexp-range	5.0.1	MIT License
tootallnate/once	1.1.2	MIT License
tough-cookie	4.0.0	BSD 3-clause "New" or "Revised" License
tr46	2.1.0	MIT License
Tray (cross platform tray icon library)	8dd1358b92562faf7c032cf5362fa97cbc7e13e9	MIT License

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ts-loader	9.2.8	MIT License
ts-node	9.1.1	MIT License
tsconfig-paths	3.14.1	MIT License
tsconfig-paths-webpack-plugin	3.5.2	MIT License
tslib	1.14.1	0BSD
tslib	2.1.0	0BSD
tslib	2.3.1	0BSD
type-check	0.3.2	MIT License
type-check	0.4.0	MIT License
type-detect	4.0.8	MIT License
type-fest	0.20.2	((MIT OR Creative Commons Zero v1.0 Universal)
type-fest	0.21.3	((MIT OR Creative Commons Zero v1.0 Universal)
typedarray-to-buffer	3.1.5	MIT License
types/ babel__core	7.1.19	MIT License
types/ babel__genera- tor	7.6.4	MIT License
types/ babel__template	7.4.1	MIT License
types/ babel__traverse	7.14.2	MIT License
types/eslint	8.4.1	MIT License
types/eslint- scope	3.7.3	MIT License
types/estree	0.0.51	MIT License
types/graceful-fs	4.1.5	MIT License
types/istanbul- lib-coverage	2.0.4	MIT License
types/istanbul- lib-report	3.0.0	MIT License
types/istanbul- reports	3.0.1	MIT License
types/json- schema	7.0.10	MIT License

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types/json5	0.0.29	MIT License
types/modernizr	3.5.3	MIT License
types/node	16.11.26	MIT License
types/parse-json	4.0.0	MIT License
types/prettier	2.4.4	MIT License
types/stack-utils	2.0.1	MIT License
types/trusted-types	2.0.2	MIT License
types/uuid	3.4.10	MIT License
types/yargs	16.0.4	MIT License
types/yargs-parser	21.0.0	MIT License
typescript	4.5.5	Apache License 2.0
tzdata	2022a	Public Domain AND BSD 3-Clause License
uhubctl	2.4.0	GPL-2.0-only License
unclutter-xfixes	1.6	MIT License
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LLVM Compiler is developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

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

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3.8 GCC Runtime Library exception 3.1

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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"A generic solution to polygon clipping"

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

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

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

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

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences

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

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shelf-pack-cpp

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Blackmagic DeckLink SDK - Mac

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Chrome Custom Tabs - Example and Usage

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

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Chromium OS system API

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

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Cocoa extension code from Camino

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

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Compact Encoding Detection

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

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CRC32C

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d3

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Dawn

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dom-distiller-js

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

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Emoji Segmenter

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FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to v
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 whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these l
 in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure
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MPEG-4 VIDEO CODEC Conversion from gcc syntax to x264asm syntax with modifications by Christophe
Gisquet <christophe.gisquet@gmail.com> ===== SSE2 inverse discrete cosine transfor
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modifications by Alexander Strange <astrange@ithinksw.com>; Originally from
dct/x86_asm/fdct_sse2_skal.asm in Xvid. Vertical pass is an implementation of the scheme: Loe
Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT Algorithm with Eleven Multiplications,
ICASSP 1989, 988-991. Horizontal pass is a double 4x4 vector/matrix multiplication, (see also
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GifPlayer Animated GIF Library

Project Homepage: <http://android-gifview.googlecode.com/svn/trunk/>

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Google Double Conversion

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

```

./test/eigen2/eigen2_svd.cpp ./test/eigen2/eigen2_mixingtypes.cpp ./test/eigen2/eigen2_qr.cpp
./test/eigen2/eigen2_cwiseop.cpp ./test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp
./test/eigen2/eigen2_smallvectors.cpp ./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_sparse_solvers.cpp ./test/eigen2/eigen2_hyperplane.cpp
./test/eigen2/eigen2_eigensolver.cpp ./test/eigen2/eigen2_linearstructure.cpp ./test/eigen2/e
./test/eigen2/eigen2_parametrizedline.cpp ./test/eigen2/eigen2_lu.cpp ./test/eigen2/eigen2_ad
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./test/eigen2/eigen2_array.cpp ./test/eigen2/eigen2_map.cpp ./test/eigen2/main.h
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./test/vectorization_logic.cpp ./test/jacobi.cpp ./test/diagonal.cpp ./test/schur_complex.cpp
./test/sizeoverflow.cpp ./bench/BenchTimer.h ./bench/benchFFT.cpp ./bench/eig33.cpp
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./lapack/cholesky.cpp ./lapack/lapack_common.h ./lapack/eigenvalues.cpp ./lapack/single.cpp
./lapack/complex_single.cpp ./lapack/double.cpp ./demos/mix_eigen_and_c/binary_library.cpp
./demos/mix_eigen_and_c/binary_library.h ./demos/mix_eigen_and_c/example.c
./demos/mandelbrot/mandelbrot.cpp
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./unsupported/test/minres.cpp ./unsupported/test/openglsupport.cpp ./unsupported/test/jacobis
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./unsupported/test/FFTW.cpp ./unsupported/test/alignedvector3.cpp ./unsupported/test/autodiff
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./unsupported/Eigen/src/IterativeSolvers/IncompleteLU.h ./unsupported/Eigen/src/IterativeSolv
./unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h
./unsupported/Eigen/src/IterativeSolvers/Scaling.h ./unsupported/Eigen/src/IterativeSolvers/M
./unsupported/Eigen/src/SparseExtra/RandomSetter.h
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./unsupported/Eigen/src/SparseExtra/DynamicSparseMatrix.h
./unsupported/Eigen/src/SparseExtra/MarketIO.h
./unsupported/Eigen/src/SparseExtra/BlockOfDynamicSparseMatrix.h
./unsupported/Eigen/src/KroneckerProduct/KroneckerTensorProduct.h
./unsupported/Eigen/src/NonLinearOptimization/LevenbergMarquardt.h

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./unsupported/Eigen/src/NonLinearOptimization/HybridNonLinearSolver.h
./unsupported/Eigen/src/BVH/BVAlgorithms.h ./unsupported/Eigen/src/BVH/KdBVH.h
./unsupported/Eigen/src/AutoDiff/AutoDiffScalar.h ./unsupported/Eigen/src/AutoDiff/AutoDiffJac
./unsupported/Eigen/src/AutoDiff/AutoDiffVector.h ./unsupported/Eigen/src/Splines/Spline.h
./unsupported/Eigen/src/Splines/SplineFitting.h ./unsupported/Eigen/src/Splines/SplineFwd.h
./unsupported/Eigen/src/SVD/JacobiSVD.h ./unsupported/Eigen/src/SVD/BDCSVD.h
./unsupported/Eigen/src/SVD/SVDBase.h ./unsupported/Eigen/src/MatrixFunctions/MatrixFunction.h
./unsupported/Eigen/src/MatrixFunctions/MatrixSquareRoot.h
./unsupported/Eigen/src/MatrixFunctions/MatrixLogarithm.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h
./unsupported/Eigen/src/MatrixFunctions/MatrixPower.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h
./unsupported/Eigen/src/MatrixFunctions/MatrixFunctionAtomic.h
./unsupported/Eigen/src/MoreVectorization/MathFunctions.h
./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h
./unsupported/Eigen/src/FFT/ei_fftw_impl.h ./unsupported/Eigen/src/FFT/ei_kissfft_impl.h
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./unsupported/Eigen/src/Polynomials/PolynomialUtils.h
./unsupported/Eigen/src/NumericalDiff/NumericalDiff.h ./unsupported/Eigen/src/Skyline/SkylineE
./unsupported/Eigen/src/Skyline/SkylineMatrixBase.h ./unsupported/Eigen/src/Skyline/SkylineSto
./unsupported/Eigen/src/Skyline/SkylineUtil.h ./unsupported/Eigen/src/Skyline/SkylineInplaceLU
./unsupported/Eigen/src/Skyline/SkylineMatrix.h ./unsupported/Eigen/SparseExtra
./unsupported/Eigen/AdolcForward ./unsupported/Eigen/KroneckerProduct
./unsupported/Eigen/NonLinearOptimization ./unsupported/Eigen/BVH ./unsupported/Eigen/OpenGLSt
./unsupported/Eigen/ArpackSupport ./unsupported/Eigen/AutoDiff ./unsupported/Eigen/Splines
./unsupported/Eigen/MPRealSupport ./unsupported/Eigen/MatrixFunctions
./unsupported/Eigen/MoreVectorization ./unsupported/Eigen/LevenbergMarquardt
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./unsupported/Eigen/NumericalDiff ./unsupported/Eigen/Skyline ./COPYING.README ./COPYING.README
./LICENSE ./LICENSE ./LICENSE ./Eigen/Eigen2Support ./Eigen/src/Eigen2Support/VectorBlock.h
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./Eigen/src/Eigen2Support/Lazy.h ./Eigen/src/Eigen2Support/Memory.h
./Eigen/src/Eigen2Support/MathFunctions.h ./Eigen/src/Eigen2Support/Geometry/AlignedBox.h
./Eigen/src/Eigen2Support/Geometry/Hyperplane.h ./Eigen/src/Eigen2Support/Geometry/Quaternion
./Eigen/src/Eigen2Support/Geometry/Rotation2D.h ./Eigen/src/Eigen2Support/Geometry/Parametriz
./Eigen/src/Eigen2Support/Geometry/RotationBase.h ./Eigen/src/Eigen2Support/Geometry/Translat
./Eigen/src/Eigen2Support/Geometry/Scaling.h ./Eigen/src/Eigen2Support/Geometry/AngleAxis.h
./Eigen/src/Eigen2Support/Geometry/Transform.h ./Eigen/src/Eigen2Support/TriangularSolver.h
./Eigen/src/Eigen2Support/LU.h ./Eigen/src/Eigen2Support/QR.h ./Eigen/src/Eigen2Support/SVD.h
./Eigen/src/Eigen2Support/Meta.h ./Eigen/src/Eigen2Support/Block.h ./Eigen/src/Eigen2Support/L
./Eigen/src/Eigen2Support/LeastSquares.h ./Eigen/src/Eigen2Support/CwiseOperators.h
./Eigen/src/Jacobi/Jacobi.h ./Eigen/src/misc/Kernel.h ./Eigen/src/misc/SparseSolve.h ./Eigen/s
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./Eigen/src/SparseCore/SparseCwiseUnaryOp.h ./Eigen/src/SparseCore/SparseSparseProductWithPrun
./Eigen/src/SparseCore/SparseBlock.h ./Eigen/src/SparseCore/SparseDenseProduct.h
./Eigen/src/SparseCore/CompressedStorage.h ./Eigen/src/SparseCore/SparseMatrixBase.h
./Eigen/src/SparseCore/MappedSparseMatrix.h ./Eigen/src/SparseCore/SparseTriangularView.h

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./Eigen/src/SparseCore/SparseView.h ./Eigen/src/SparseCore/SparseFuzzy.h
./Eigen/src/SparseCore/TriangularSolver.h ./Eigen/src/SparseCore/SparseSelfAdjointView.h
./Eigen/src/SparseCore/SparseMatrix.h ./Eigen/src/SparseCore/SparseVector.h
./Eigen/src/SparseCore/AmbiVector.h ./Eigen/src/SparseCore/ConservativeSparseSparseProduct.h
./Eigen/src/SparseCore/SparseRedux.h ./Eigen/src/SparseCore/SparsePermutation.h
./Eigen/src/Eigenvalues/RealSchur.h ./Eigen/src/Eigenvalues/ComplexEigenSolver.h
./Eigen/src/Eigenvalues/GeneralizedEigenSolver.h
./Eigen/src/Eigenvalues/ComplexSchur.h ./Eigen/src/Eigenvalues/RealQZ.h
./Eigen/src/Eigenvalues/EigenSolver.h ./Eigen/src/Eigenvalues/HessenbergDecomposition.h
./Eigen/src/Eigenvalues/GeneralizedSelfAdjointEigenSolver.h ./Eigen/src/Eigenvalues/Tridiagonalization.h
./Eigen/src/Eigenvalues/SelfAdjointEigenSolver.h ./Eigen/src/Eigenvalues/MatrixBaseEigenvalues.h
./Eigen/src/SuperLUSupport/SuperLUSupport.h ./Eigen/src/StlSupport/StdDeque.h
./Eigen/src/StlSupport/StdVector.h ./Eigen/src/StlSupport/StdList.h ./Eigen/src/StlSupport/StdMap.h
./Eigen/src/SparseQR/SparseQR.h ./Eigen/src/LU/Inverse.h ./Eigen/src/LU/arch/Inverse_SSE.h
./Eigen/src/LU/Determinant.h ./Eigen/src/LU/PartialPivLU.h ./Eigen/src/LU/FullPivLU.h
./Eigen/src/UmfPackSupport/UmfPackSupport.h ./Eigen/src/OrderingMethods/Ordering.h
./Eigen/src/OrderingMethods/Eigen_Colamd.h ./Eigen/src/QR/HouseholderQR.h
./Eigen/src/QR/ColPivHouseholderQR.h ./Eigen/src/QR/FullPivHouseholderQR.h
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./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/TriangularSolverMatrix.h ./Eigen/src/Core/products/GeneralMatrixMatrix.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/VectorwiseOp.h ./Eigen/src/Core/Select.h ./Eigen/src/Core/ArrayBase.h
./Eigen/src/Core/DenseCoeffsBase.h ./Eigen/src/Core/DiagonalProduct.h ./Eigen/src/Core/Assign
./Eigen/src/Core/Redux.h ./Eigen/src/Core/ForceAlignedAccess.h
./Eigen/src/Core/BandMatrix.h ./Eigen/src/Core/PlainObjectBase.h ./Eigen/src/Core/DenseBase.h
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./Eigen/src/PaStiXSupport/PaStiXSupport.h ./Eigen/src/MetisSupport/MetisSupport.h ./Eigen/StdV
./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
./blas/level1_cplx_impl.h ./blas/level1_impl.h ./blas/level1_real_impl.h ./blas/level3_impl.h
./blas/level2_cplx_impl.h ./blas/PackedSelfadjointProduct.h ./blas/Rank2Update.h ./blas/comple
./blas/PackedTriangularSolverVector.h ./blas/double.cpp ./blas/common.h ./blas/level2_impl.h
./blas/GeneralRank1Update.h Mozilla Public License Version 2.0
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GVR Keyboard

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icu

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jsoncpp

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libcxx-pretty-printers

Project Homepage: <https://github.com/koutheir/libcxx-pretty-printers>

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libprotobuf-mutator

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libudev

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linux-syscall-support

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OTS (OpenType Sanitizer)

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Protocol Buffers

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pyjson5

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

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pywebsocket3

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

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Quick Color Management System

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

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re2 - an efficient, principled regular expression library

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simplejson

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six

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Snappy: A fast compressor/decompressor

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SPIR-V Headers

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url_parse

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usrstcp

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v4l-utils

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valgrind

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WDS

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Weston - reference Wayland compositor

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woff2

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WuFFs (Wrangling Untrusted File Formats Safely)

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xdg-mime

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xdg-utils

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yasm

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- xf86-video-fbdev-0.5.0: COPYING
- xf86-video-vbox-gitAUTOINC+4f3a2bea25: COPYING
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- xinit-1.4.1: COPYING
- xinput-1.6.3: COPYING
- xinput-calibrator-0.7.5+git: src/calibrator.cpp, 1-22
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- xterm-372: xterm.h, 3-31
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- xz-5.2.5: lib/getopt.c, 1-23
- zeromq-4.3.4: COPYING.LESSER
- zlib-1.2.11: zlib.h, 6-23
- zstd-1.5.2: LICENSE
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```

```

=====
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libdaemon-0.14: LICENSE
libgcc-11.3.0: COPYING.LIB
libgpg-error-1.44: COPYING.LIB
=====

```

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```

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

That's all there is to it!

```

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

#ifndef fooaddressshfoo
#define fooaddressshfoo

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 * USA.
 */

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

#include <inttypes.h>

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

#ifndef foodnshfoo
#define foodnshfoo

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*** /

#include "rr.h"

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

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*** /

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

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

```
#ifndef fooclienthfoo
#define fooclienthfoo
```

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*** /

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

```
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ifplugd-0.28: LICENSE
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libgcrypt-1.9.4: COPYING
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- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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How to Apply These Terms to Your New Programs

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

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

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

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

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

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

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate

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

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

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

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

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

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

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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.]

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

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

derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for

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

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(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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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.

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

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

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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
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.
```

```
This library 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
Library General Public License for more details.
```

```
You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
```

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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-11.3.0: COPYING3
gdb-11.2: COPYING3
gmp-6.2.1: COPYING
grub-2.06: COPYING
grub-2.04+2.06~rc1: COPYING
haveged-1.9.18: COPYING
libgcc-11.3.0: COPYING3
mhdfs-0.1.39+git: LICENSE
readline-8.1.2: COPYING
samba-4.14.13: COPYING
xz-5.2.5: COPYING.GPLv3
=====
```

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Version 3, 29 June 2007

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```

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

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```
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```

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```
=====
busybox-1.35.0: archival/libarchive/bz/LICENSE
=====
```

```
bzip2 applet in busybox is based on lightly-modified source
of bzip2 version 1.0.4. bzip2 source is distributed
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=====
```

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

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

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

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

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

C++ REST SDK

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```
=====
curl-7.82.0: COPYING
=====
```

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=====

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loginrec.h

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loginrec is written primarily by Andre Lucas, atomicio.c by Theo de Raadt.

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=====

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=====

curve25519.c:

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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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```
=====
e2fsprogs-1.46.5: NOTICE
e2fsprogs-1.46.1: NOTICE
=====
```

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Theodore Ts'o
 23-June-2007

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```

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

That's all there is to it!

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

```
/*
 * ext2fs.h --- ext2fs
 *
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 *
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```

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

```

=====

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

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

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 * Public include file for the UUID library
 *
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=====

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```

```
e2fsprogs-1.46.1: lib/uuid/COPYING
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=====
```

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```
=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
e2fsprogs-1.46.1: lib/et/et_name.c, 1-11
=====
```

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```

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

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

=====

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 * 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.
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```
=====
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=====
```

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Juliusz Chroboczek

```
=====
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flashrom-1.2: COPYING
kmod-29: tools/COPYING
libftdi-1.4: COPYING.GPL
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=====
```

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

```
/* pwait - wait for processes to terminate
 * extrace - trace exec() calls system-wide
 *
 * Copyright (C) 2014-2019 Leah Neukirchen <leah@vuxu.org>
 *
 * hacked from sources of:
 */
/* FreeBSD: head/bin/pwait/pwait.c 245506 2013-01-16 18:15:25Z delphij */
/*-
 * Copyright (c) 2004-2009, Jilles Tjoelker
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* 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
* Derived from fcctl.c by Guillaume Thouvenin
* Original copyright notice follows:
*
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* Written by Guillaume Thouvenin <guillaume.thouvenin@bull.net>
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* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
*/

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

```

=====

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=====

font-alias-1.0.4: cyrillic/fonts.alias

=====

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 !

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


```

koi6x13  -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
koi6x13bold  -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-koi8-r
koi7x14  -misc-fixed-medium-r-normal--14-130-75-75-c-70-koi8-r
koi7x14b  -misc-fixed-bold-r-normal--14-130-75-75-c-70-koi8-r
koi8x13  -misc-fixed-medium-r-normal--13-120-75-75-c-80-koi8-r
koi8x16  -misc-fixed-medium-r-normal--16-160-75-75-c-80-koi8-r
koi8x16bold  -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
koi9x15  -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
koi9x15bold  -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
koi9x18  -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
koi9x18bold  -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
koi10x16bold  -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
koi10x20  -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
koi12x24  -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r
koi12x24bold  -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
koinil2   -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
screen8x16  -screen-fixed-medium-r-normal--16-120-100-100-c-80-koi8-r
screen8x16b  -screen-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r

```

```

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

```

```

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

```

```

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

```

```

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

```

```

fixed      -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1
variable   -*helvetica-bold-r-normal--*-120-75-75-c-60-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
8x16romankana -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
12x24romankana -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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```

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

```
/*
 * fontconfig/src/fcftypem.c
 *
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 */
```

```
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*/

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

/*

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

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

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

```
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 */
```

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

```
/*-
```

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```

```

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

```

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```
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```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
=====
fuse-2.9.9: COPYING.LIB
glib-2.0-2.72.3: COPYING
glib-2.0-2.72.3: gmodule/COPYING
glibc-2.35: COPYING.LIB
libnl-3.5.0: COPYING
libns12-2.0.0: COPYING
libxcrypt-4.4.28: COPYING.LIB
util-linux-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
```

```
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
xz-5.2.5: COPYING.LGPLv2.1
```

```
=====
```

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```
=====
gcc-runtime-11.3.0: COPYING.RUNTIME
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=====
```

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Version 3.1, 31 March 2009

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

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glibc-2.35: LICENSES

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

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

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
```

```
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

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

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this 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.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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END OF TERMS AND CONDITIONS

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
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.
```

```
This library 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
Library General Public License for more details.
```

```
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!

```
=====
libgrypt-1.9.4: COPYING.LIB
libmcript-2.5.8: COPYING.LIB
=====
```

GNU LESSER GENERAL PUBLIC LICENSE Version 2.1, February 1999

```
Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
```

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better 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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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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.

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

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

```
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```

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```
*/
```

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

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

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

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

```
=====
libjpeg-turbo-2.1.3: jpeglib.h, 1-16
=====
```

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```
*
```

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

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

```
/*
```

```
* djpeg.c
```

```
*
```

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```

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

```
/*
```

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

```
Python interface to ldb.
```

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

```
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*/

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

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

/*
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 simple ldb tdb dump util
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Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

University of Cambridge Computing Service,
Cambridge, England.

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Written by: Zoltan Herczeg
Email local part: hzmester
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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

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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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```

```

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```

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```

*/

```



```

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

/*
    Unix SMB/CIFS implementation.

    generalised event loop handling

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=====
libtirc-1.3.2: COPYING
=====

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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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modify it under the terms of the GNU General Public License (GPL), either
version 3 of the License, or (at your option) any later version published
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@end ignore
@end ifinfo

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

@ifnohtml

```

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

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

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

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

```
@menu
* Introduction::          Who may need Unicode strings?
* Conventions::          Conventions used in this manual
* untypes.h::            Elementary types
* unistr.h::             Elementary Unicode string functions
* uniconv.h::            Conversions between Unicode and encodings
* unistdio.h::           Output with Unicode strings
* uniname.h::            Names of Unicode characters
* unictype.h::           Unicode character classification and properties
* uniwidth.h::           Display width
* unigbrk.h::            Grapheme cluster breaking
* uniwbrk.h::            Word breaks in strings
* unilbrk.h::            Line breaking
* uninorm.h::            Normalization forms
* unicase.h::            Case mappings
* uniregex.h::           Regular expressions
* Using the library::     How to link with the library and use it?
```

```

* More functionality::          More advanced functionality
* The wchar_t mess::           Why @code{wchar_t *} strings are useless
* The char32_t problem::       Why @code{char32_t *} strings are problematic
* Licenses::                   Licenses

```

```

* Index::                      General Index

```

```
@detailmenu
```

```
--- The Detailed Node Listing ---
```

```
Introduction
```

```

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

```

```
unistr.h
```

```

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

```

```
Elementary string functions
```

```

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

```

```
Elementary string functions on NUL terminated strings
```

```

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

```

```
unictype.h
```

```
* General category::
```

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

General category

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

Properties

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

unigbrk.h

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

uniwbrk.h

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

uninorm.h

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

unicase,h

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

Using the library


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

Licenses

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

```
@end detailmenu
@end menu
```

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

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

It consists of the following parts:

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

@cindex use cases

@cindex value, of libunistring

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

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

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

@menu

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

@end menu

@node Unicode

@section Unicode

@cindex Unicode

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

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

@cindex UTF-8

@cindex UTF-16

@cindex UTF-32

@cindex UCS-4

@table @asis

@item UTF-8

Every character is represented as 1 to 4 bytes.

@item UTF-16

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

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

Every character is represented as 1 unit of 32 bits.

@end table

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

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

References:

@itemize @bullet

@item

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

@item

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

@item

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

@item

Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{}

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

@end itemize

@node Unicode and i18n

@section Unicode and Internationalization

@cindex internationalization

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

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

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

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

@itemize @bullet

@item

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

```

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

@node Locale encodings
@section Locale encodings

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

@cindex locale encoding
In particular, the @code{LC_CTYPE} category of the current locale determines
the character encoding. This is the encoding of @samp{char *} strings.
We also call it the ``locale encoding''. GNU libunistring has a function,
@func{locale_charset}, that returns a standardized (platform independent)
name for this encoding.

```

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

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

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

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

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

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

@itemize @bullet

@item

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

@item

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

@item

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

@end itemize

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

The five types @code{char *}, @code{uint8_t *}, @code{uint16_t *}, @code{uint32_t *}, and @code{wchar_t *} are incompatible types at the C level. Therefore, @samp{gcc -Wall} will produce a warning if, by mistake, your code contains a mismatch between these types. In the context of

using GNU libunistring, even a warning about a mismatch between `@code{char *}` and `@code{uint8_t *}` is a sign of a bug in your code that you should not try to silence through a cast.

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

```
@cindex C string functions
```

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

```
@cindex locale, multibyte
```

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

```
@cindex char, type
```

The important fact to remember is:

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

As a consequence:

```
@itemize @bullet
@item
```

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

```
@item
```

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

```
@item
```

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

```
@item
```

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

a digit.

@item

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

@item

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

@item

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

@item

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

@end itemize

The workarounds can be found in GNU glibc

@url{<https://www.gnu.org/software/glibc/>}.

@itemize @bullet

@item

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

@item

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

@item

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

@item

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

@item

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

@item

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

@item

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

@end itemize

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

@itemize @bullet

@item

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

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

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

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

@item

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

@item

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

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

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

@sc{GREEK SMALL LETTER FINAL SIGMA}.

@item

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

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

@end itemize

The correct way to deal with this problem is

@enumerate

@item

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

@item

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

@end enumerate

This is implemented in this library, through the functions declared in @code{<unicase.h>}, see @ref{unicase.h}.

@node Unicode strings

@section Unicode strings

libunistring supports Unicode strings in three representations:

@cindex UTF-8, strings

@cindex UTF-16, strings

@cindex UTF-32, strings

@itemize @bullet

@item

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

@item

UTF-16 strings, through the type @samp{uint16_t *}, The units are 16-bit


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

As with C strings, there are two variants:

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

```
@node Conventions
@chapter Conventions
```

This chapter explains conventions valid throughout the libunistring library.

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

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

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

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

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

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

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

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

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

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

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

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

`@cindex` return value conventions

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

Functions returning a string result take a

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

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

`@include untypes.texi`

`@include unistr.texi`

`@include uniconv.texi`

`@include unistdio.texi`

`@include uniname.texi`

`@include unictype.texi`

`@include uniwidth.texi`

`@include unigbrk.texi`

`@include uniwbrk.texi`

`@include unilbrk.texi`

`@include uninorm.texi`

`@include unicast.texi`

`@include uniregex.texi`

`@node Using the library`

`@chapter Using the library`

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

```

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

@node Installation
@section Installation

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

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

@node Compiler options
@section Compiler options

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

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

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

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

So that the compiler finds the library during its linking pass, you have
to pass it the options @code{-L${LIBUNISTRING_LIBDIR} -lunistring}.

```

On some systems, in some configurations, you also have to pass options needed for linking with `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 `libunistring`, see [libunistring](#).
<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 `LT_LIBUNISTRING` 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 `LT_LIBUNISTRING` to empty.

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

`@itemize @bullet`

`@item`

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

`@item`

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

`@item`

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

`@end itemize`

`@node Reporting problems`

`@section Reporting problems`

`@cindex bug reports`

`@cindex bug tracker`

`@cindex mailing list`

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

`@url{https://savannah.gnu.org/projects/libunistring}`, or by email to the `bug-libunistring@gnu.org` mailing list.

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

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

`@node More functionality`

`@chapter More advanced functionality`

`@cindex bidirectional reordering`

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

`@cindex rendering`

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

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

```
@include wchar_t.texi
```

```
@include char32_t.texi
```

```
@node Licenses
```

```
@appendix Licenses
```

```
@cindex Licenses
```

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

```
@itemize @bullet
```

```
@item
```

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

```
@itemize @bullet
```

```
@item @minus{}
```

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```
@item @minus{}
```

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```
@item @minus{}
```

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```
@end itemize
```

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```
@*
```

You can find the GNU GPL version 2 at

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

```
@*
```

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```
@item
```

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```
@*
```

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@end itemize

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

@page
@node GNU GPL
@appendixsec GNU GENERAL PUBLIC LICENSE
@cindex GPL, GNU General Public License
@cindex License, GNU GPL
@include gpl.texi
@page
@node GNU LGPL
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, GNU Lesser General Public License
@cindex License, GNU LGPL
@include lgpl.texi
@page
@node GNU FDL
@appendixsec GNU Free Documentation License
@cindex FDL, GNU Free Documentation License
@cindex License, GNU FDL
@include fdl.texi

@node Index
@unnumbered Index

@printindex cp

@bye

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

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

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```

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```
=====
liburcu-0.13.1: LICENSE
=====
```

Userspace RCU library licensing
Mathieu Desnoyers
September 3, 2012

* LGPLv2.1

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

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

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

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

See lgpl-relicensing.txt for details.

* MIT-style license :

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

proprietary software:

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

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

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

MIT/X11 (BSD like) license apply to:

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

* GPLv2

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

* GPLv3 (or later)

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

m4/ax_tls.m4

```
=====
liburcu-0.13.1: include/urcu/urcu.h, 4-32
=====
```

```
/*
 * urcu.h
 *
 * Userspace RCU header
 *
 * Copyright (c) 2009 Mathieu Desnoyers <mathieu.desnoyers@efficios.com>
 * Copyright (c) 2009 Paul E. McKenney, IBM Corporation.
 */
```

```

* LGPL-compatible code should include this header with :
*
* #define _LGPL_SOURCE
* #include <urcu.h>
*
* This library is free software; you can redistribute it and/or
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*
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* Lesser General Public License for more details.
*
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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-0.13.1: 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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* OR IMPLIED. ANY USE IS AT YOUR OWN RISK.
*
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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 libuatomic_ops-1.2, inherited in part from the
* Boehm-Demers-Weiser conservative garbage collector.
*/

```

```

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

```

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
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can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
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it in new free programs; and that you are informed that you can do
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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
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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.

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.

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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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it.

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

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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.)

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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.

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

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Ty Coon, President of Vice

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```
=====
libvncserver-0.9.13: COPYING
=====
```

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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.>
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```

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

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

```
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```

`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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```
=====
libx11-1.7.3.1: COPYING
=====
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   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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libxi-1.8: src/XIGetDevFocus.c, 1-23
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libxml2-2.9.14: hash.c, 6-15
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=====
libxtst-1.2.3: src/XTest.c, 2-32
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lpkit-udev-common-1.0: sources/poky/meta/files/common-licenses/MIT
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lsof-4.94.0: 00README, 645-679

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snprintf/variou.h
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lzo-2.10: src/lzo_init.c, 5-25
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Alexander Monakov
Anthony G. Basile
Arvid Picciani
Bobby Bingham
Boris Brezillon
Brent Cook
Chris Spiegel
Clément Vasseur
Daniel Micay
Denys Vlasenko
Emil Renner Berthing
Felix Fietkau
Felix Janda
Gianluca Anzolin
Hauke Mehrtens
Hiltjo Posthuma
Isaac Dunham
Jaydeep Patil
Jens Gustedt

Jeremy Huntwork
Jo-Philipp Wich
Joakim Sindholt
John Spencer
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Justin Cormack
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Kylie McClain
Luca Barbato
Luka Perkov
M Farkas-Dyck (Strake)
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nettle-3.7.3: serpent-decrypt.c, 14-36
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=====
nspr-4.29: configure.in, 3-6
=====
```

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=====
nspr-4.29: Makefile.in, 4-38
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```
MOD_DEPTH    = .
topsrcdir     = @top_srcdir@
srcdir        = @srcdir@
VPATH         = @srcdir@
```

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

```
DIRS = config pr lib
```

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

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

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

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

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

```
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=====
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pixman-0.40.0: pixman/pixman-arm-neon-asm.h, 1-24
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rsmic-git: rsmic.c, 1-1
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=====
shadow-4.11.1: src/passwd.c, 2-30
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*/

#include <config.h>

#ident "$Id$"

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

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

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sysstat-12.4.5: COPYING
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=====
x11vnc-0.9.16+git: src/x11vnc.h, 1-31
=====
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```
=====
xcb-util-0.4.0: src/xcb_aux.c, 1-30
=====
```

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

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

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

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

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

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xinput-calibrator-0.7.5+git: src/calibrator.cpp, 1-22
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=====
xterm-372: xterm.h, 3-31
=====
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```
=====
xz-5.2.5: lib/getopt.c, 1-23
=====
```

```
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   "Keep this file name-space clean" means, talk to drepper@gnu.org
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```
#ifndef _LIBC
```

```
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zeromq-4.3.4: COPYING.LESSER
=====
```

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zlib-1.2.11: zlib.h, 6-23

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

=====

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

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