

R&S® AREG800A

Automotive Radio Echo Generator Open Source Acknowledgment



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Version 03.00

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Contents

1	Introduction.....	5
2	Software packages.....	6
3	Verbatim license texts.....	44
4	Copyrights.....	107
	Annex.....	138
A	Third Party Attributions used by Qt 5.15.13.....	138
B	Intel(R) Integrated Performance Primitives (Intel(R) IPP) Library.	546
C	CMSIS Cortex-M3 Core Peripheral Access Layer V3.00.....	548
D	Atmel Advanced Software Framework V3.5.....	549
E	Base system license texts.....	550

1 Introduction

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

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2 Software packages

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

Package	Version	License
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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/animati- ons	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 2.7 License
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
babel/code-frame	7.16.7	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
babel/helper-compilation-targets	7.17.7	MIT License
babel/helper-create-class-features-plugin	7.17.6	MIT License
babel/helper-create-regexp-features-plugin	7.17.0	MIT License
babel/helper-define-polyfill-provider	0.3.1	MIT License
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babel/helper-explode-assignable-expression	7.16.7	MIT License
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babel/helper-get-function-arity	7.16.7	MIT License
babel/helper-hoist-variables	7.16.7	MIT License
babel/helper-member-expression-to-functions	7.17.7	MIT License
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babel/helper-plugin-utils	7.16.7	MIT License

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babel/helper-replace-supers	7.16.7	MIT License
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babel/helper-skip-transparent-expression-wrappers	7.16.0	MIT License
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babel/helper-validator-identifier	7.16.7	MIT License
babel/helper-validator-option	7.16.7	MIT License
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babel/plugin-proposal-class-static-block	7.17.6	MIT License
babel/plugin-proposal-dynamic-import	7.16.7	MIT License

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babel/plugin-proposal-nullish-coalescing-operator	7.16.7	MIT License
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babel/plugin-proposal-private-property-in-object	7.16.7	MIT License
babel/plugin-proposal-unicode-property-regex	7.16.7	MIT License
babel/plugin-syntax-async-generators	7.8.4	MIT License
babel/plugin-syntax-bigint	7.8.3	MIT License
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babel/plugin-syntax-class-static-block	7.14.5	MIT License

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babel/plugin-syntax-dynamic-import	7.8.3	MIT License
babel/plugin-syntax-export-namespace-from	7.8.3	MIT License
babel/plugin-syntax-import-meta	7.10.4	MIT License
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babel/plugin-transform-modules-systemjs	7.17.8	MIT License
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babel/plugin-transform-unicode-escapes	7.16.7	MIT License
babel/plugin-transform-unicode-regex	7.16.7	MIT License
babel/preset-env	7.16.11	MIT License
babel/preset-modules	0.1.5	MIT License
babel/runtime	7.16.7	MIT License
babel/template	7.16.7	MIT License

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babel/traverse	7.17.3	MIT License
babel/types	7.17.0	MIT License
balanced-match	1.0.2	MIT License
base-files	3.0.14	GPL-2.0-only License
base-passwd	3.5.29	GPL-2.0-only License
base64-js	1.5.1	MIT License
bcoe/v8-coverage	0.2.3	MIT License
big.js	5.2.2	MIT License
binary-extensions	2.2.0	MIT License
binutils	2.38	GPL-3.0-only License
bl	4.1.0	MIT License
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
brotli	1.0.9	MIT License
browser-process-hrtime	1.0.0	BSD 2-clause "Simplified" License
browserslist	4.20.2	MIT License
bser	2.1.1	Apache License 2.0
buffer	5.7.1	MIT License
buffer-from	1.1.2	MIT License
busybox	1.35.0	GPL-2.0-only License AND bzip2 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	Creative Commons Attribution 4.0
ccid	1.4.33	LGPL-2.1-or-later License

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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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collect-v8-coverage	1.0.1	MIT License
color-convert	1.9.3	MIT License
color-convert	2.0.1	MIT License
color-name	1.1.3	MIT License
color-name	1.1.4	MIT License
combined-stream	1.0.8	MIT License
commander	2.20.3	MIT License
comondir	1.0.1	MIT License
concat-map	0.0.1	MIT License
convert-source-map	1.8.0	MIT License
core-js	3.21.1	MIT License
core-js-compat	3.21.1	MIT License

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cosmicconfig	6.0.0	MIT License
cpprest	2.10.18	MIT License
cppzmq	4.7.1	MIT License
create-require	1.1.1	MIT License
cross-spawn	7.0.3	MIT License
cssom	0.3.8	MIT License
cssom	0.4.4	MIT License
cssstyle	2.3.0	MIT License
curl	7.82.0	curl License
cypress/ webpack-preprocessor	5.11.1	MIT License
data-urls	2.0.0	MIT License
dbus	1.14.6	Academic Free License v2.1 OR GPL-2.0-or-later License
dcplib	0.2	BSD 3-clause "New" or "Revised" License
debug	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
dotenv	10.0.0	BSD 2-clause "Simplified" License

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e2fsprogs	1.46.1	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
e2fsprogs	1.46.5	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
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
escape-string-regexp	4.0.0	MIT License

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eslint	8.7.0	MIT License
eslint-scope	5.1.1	BSD 2-clause "Simplified" License
eslint-scope	7.1.1	BSD 2-clause "Simplified" License
eslint-utils	3.0.0	MIT License
eslint-visitor-keys	2.1.0	Apache License 2.0
eslint-visitor-keys	3.3.0	Apache License 2.0
eslint/eslintrc	1.2.1	MIT License
esprez	9.3.1	BSD 2-clause "Simplified" License
esprima	4.0.1	BSD 2-clause "Simplified" License
esquery	1.4.0	BSD 3-clause "New" or "Revised" License
esrecurse	4.3.0	BSD 2-clause "Simplified" License
estraverse	4.3.0	BSD 2-clause "Simplified" License
estraverse	5.3.0	BSD 2-clause "Simplified" License
esutils	2.0.3	BSD 2-clause "Simplified" License
events	3.3.0	MIT License
execa	5.1.1	MIT License
exit	0.1.2	MIT License
expat	2.5.0	MIT License
Expat XML Parser Toolkit	2.4.8	MIT License
expect	27.5.1	MIT License
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
figures	3.2.0	MIT License
file-entry-cache	6.0.1	MIT License
file-saver	2.0.5	MIT License

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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 Software Notice and License (2002-12-31)
font-alias	1.0.4	MIT License
font-util	1.3.3	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
fontconfig	2.13.1	MIT License AND MIT License AND Public Domain
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
gcc-runtime	11.3.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1

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gdb	11.2	GPL-2.0-only License AND GPL-3.0-only License AND LGPL-2.0-only License AND LGPL-3.0-only License
gensync	1.0.0-beta.2	MIT License
get-caller-file	2.0.5	ISC License
get-intrinsic	1.1.1	MIT License
get-package-type	0.1.0	MIT License
get-stream	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
gperftools	2.9.1	BSD 3-Clause License

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graceful-fs	4.2.9	ISC License
grub	2.04+2.06~rc1	GPL-3.0-only License
grub	2.06	GPL-3.0-only License
gtest	1.13.e	BSD 3-clause "New" or "Revised" License
harmony-reflect	1.6.2	Apache License 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
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ieee754	1.2.1	BSD 3-clause "New" or "Revised" License
ifplugd	0.28	GPL-2.0-only License
ignore	5.2.0	MIT License
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
iptables	1.8.7	GPL-2.0-or-later License

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is-binary-path	2.1.0	MIT License
is-ci	3.0.1	MIT License
is-core-module	2.8.1	MIT License
is-docker	2.2.1	MIT License
is-extglob	2.1.1	MIT License
is-fullwidth-code-point	3.0.0	MIT License
is-generator-fn	2.1.0	MIT License
is-glob	4.0.3	MIT License
is-interactive	1.0.0	MIT License
is-number	7.0.0	MIT License
is-plain-object	2.0.4	MIT License
is-potential-custom-element-name	1.0.1	MIT License
is-stream	2.0.1	MIT License
is-typedarray	1.0.0	MIT License
is-unicode-supported	0.1.0	MIT License
is-wsl	2.2.0	MIT License
isexe	2.0.0	ISC License
isobject	3.0.1	MIT License
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istanbul-lib-instrument	5.1.0	BSD 3-clause "New" or "Revised" License
istanbul-lib-report	3.0.0	BSD 3-clause "New" or "Revised" License
istanbul-lib-source-maps	4.0.1	BSD 3-clause "New" or "Revised" License
istanbul-reports	3.1.4	BSD 3-clause "New" or "Revised" License
istanbuljs/load-nyc-config	1.1.0	ISC License

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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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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	3.6.2	BSD 2-Clause License
libcap	2.66	BSD 3-Clause License OR GPL-2.0-only License
libdaemon	0.14	LGPL-2.1-or-later License
libdrm	2.4.110	MIT License
libedit	20210910-3.1	BSD 3-Clause License
libepoxy	1.5.10	MIT License
libev	4.33	BSD 2-Clause License OR GPL-2.0-or-later License
libevdev	1.12.1	MIT License
libevent	2.1.12	BSD 3-Clause License AND MIT License
libffi	3.4.4	MIT License
libfontenc	1.1.4	MIT License
libftdi	1.4	LGPL-2.1-only License AND GPL-2.0-only License
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	(IGPL-2.0-or-later License OR LGPL-3.0-only License)) AND GPL-3.0-or-later License AND Unicode Data Files and Software License (2016)
libinput	1.19.4	MIT License
libjpeg-turbo	2.1.5.1	BSD 3-Clause License
libldb	2.3.4	LGPL-3.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
libmcrypt	2.5.8	LGPL-2.1-only License
libnl	3.5.0	LGPL-2.1-only License
libnsl2	2.0.0	LGPL-2.1-only License
libpciaccess	0.16	MIT License AND MIT License AND
libpcre	8.45	BSD 3-Clause License
libpcre2	10.40	BSD 3-Clause License
libpng	1.6.39	libpng License
libsm	1.2.3	MIT License
libsodium	1.0.18	ISC License
libtalloc	2.3.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtdb	1.4.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtevent	0.10.2	LGPL-3.0-or-later License
libtirpc	1.3.2	BSD 3-Clause License
libunistring	1.0	LGPL-3.0-or-later License OR GPL-2.0-or-later License
libunwind	1.6.2	MIT License
liburcu	0.13.2	LGPL-2.1-or-later License AND MIT License
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

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libxau	1.0.9	MIT License
libxaw	1.0.14	MIT License
libxcb	1.14	MIT License
libxcomposite	0.4.5	MIT License
libxcrypt	4.4.30	LGPL-2.1-only License
libxcvt	0.1.1	MIT License
libxdamage	1.1.5	MIT License
libxdmcp	1.1.3	MIT License
libxext	1.3.4	MIT License
libxfixed	6.0.0	MIT License
libxfont2	2.0.5	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
libxft	2.3.4	MIT License
libxi	1.8	MIT License AND MIT License AND
libxinerama	1.1.4	MIT License
libxkbcommon	1.4.1	MIT License AND MIT License AND
libxkbfile	1.1.0	MIT License
libxml2	2.9.14	MIT License
libxmu	1.1.3	MIT License AND MIT License AND
libxpm	3.5.15	MIT License
libxrandr	1.5.2	MIT License
libxrender	0.9.10	MIT License
libxshmfence	1.3	Historical Permission Notice and Disclaimer
libxt	1.2.1	MIT License AND MIT License AND
libxtst	1.2.3	MIT License
libxxf86vm	1.1.4	MIT License
libzip	1.7.3	BSD 3-clause "New" or "Revised" License
lines-and-columns	1.2.4	MIT License

Package	Version	License
linux	5.10	GPL-2.0-only License
linux-firmware-amdgpu	1.0	Firmware-amd License
linuxptp	4.0	GPL-2.0-only 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
isof	4.94.0	Spencer-94 License
lttng-ust	2.13.5	LGPL-2.1-or-later License AND MIT License AND GPL-2.0-only License
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
mbedtls	3.1.0	Apache License 2.0
MD4 (RFC 1320) Message-Digest Algorithm	unspecific	MD4 license

Package	Version	License
MD5 (RFC 1321) Message-Digest Algorithm	unspecific	RSA Message-Digest License
memfs	3.4.1	The Unlicense
merge-stream	2.0.0	MIT License
merge2	1.4.1	MIT License
mesa	22.0.3	MIT License
mhdfs	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
minizip-ng	3.0.6	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	5.9.3	BSD 3-Clause License AND MIT License
netbase	6.3	GPL-2.0-only License
nettle	3.7.3	LGPL-3.0-or-later License OR GPL-2.0-or-later License
nfs-utils	2.6.1	MIT License AND GPL-2.0-or-later License AND BSD 3-Clause License
nghttp2	1.47.0	MIT License

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nginx	1.20.1	BSD 2-Clause License
ngrx/store	13.2.0	MIT License
ngx-translate/ core	13.0.0	MIT License
ngx-translate/ http-loader	6.0.0	MIT License
node-addon-api	3.2.1	MIT License
node-gyp-build	4.3.0	MIT License
node-int64	0.4.0	MIT License
node-releases	2.0.2	MIT License
nodelib/fs.scan- dir	2.1.5	MIT License
nodelib/fs.stat	2.0.5	MIT License
nodelib/fs.walk	1.2.8	MIT License
normalize-path	3.0.0	MIT License
NotoSansUI- Bold	1.06	SIL Open Font License 1.1
NotoSansUI-Bol- dItalic	1.06	SIL Open Font License 1.1
NotoSansUI- Italic	1.06	SIL Open Font License 1.1
NotoSansUI- Regular	1.06	SIL Open Font License 1.1
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

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nrwl/workspace	13.9.4	MIT License
nspr	4.29	GPL-2.0-only License OR MPL-2.0 License OR LGPL-2.1-only License
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
Open-Simulation-Interface	3.5.0	Mozilla Public License 2.0
openjpeg	2.4.0	BSD 2-Clause License
openssl	3.0.9	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

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parse5	6.0.1	MIT License
path-exists	4.0.0	MIT License
path-is-absolute	1.0.1	MIT License
path-key	3.1.1	MIT License
path-parse	1.0.7	MIT License
path-type	4.0.0	MIT License
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	8.1.16	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++ libra- ries	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	3.19.6	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

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qrencode	4.0.2	GNU Lesser General Public License v2.1
queue-microtask	1.2.3	MIT License
randombytes	2.1.0	MIT License
RapidXml XML parser	1.13	Boost Software License 1.0
react-is	17.0.2	MIT License
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
regjsgen	0.6.0	MIT License
regjsparser	0.8.4	BSD 2-clause "Simplified" License
remez-exchange	1.0	GNU Lesser General Public License v3.0
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

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Roboto-Italic	2.001101; 2014	Apache License 2.0
Roboto-Medium	2.001152; 2014	Apache License 2.0
Roboto-Medium-Italic	2.001152; 2014	Apache License 2.0
Roboto-Regular	2.001101; 2014	Apache License 2.0
RobotoCondensed-Bold	2.001240; 2014	Apache License 2.0
RobotoCondensed-BoldItalic	2.001240; 2014	Apache License 2.0
RobotoCondensed-Italic	2.001240; 2014	Apache License 2.0
RobotoCondensed-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
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	4.14.14	GPL-3.0-or-later License AND LGPL-3.0-or-later License AND GPL-2.0-or-later License

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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
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
smwhostpci-mod	0.1	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

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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
supports-hyperlinks	2.2.0	MIT License
supports-preserve-symlinks-flag	1.0.0	MIT License
swc-node/core	1.8.2	MIT License
swc-node/register	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 License 2.0 AND MIT License
swc/core-linux-x64-musl	1.2.160	Apache License 2.0 AND MIT License
symbol-tree	3.2.4	MIT License
sysstat	12.4.5	GPL-2.0-or-later License

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systemd	250.5	GPL-2.0-only License AND LGPL-2.1-only License
systemd-serial- getty	1.0	GPL-2.0-or-later License
tapable	1.1.3	MIT License
tapable	2.2.1	MIT License
tcp-wrappers	7.6	BSD-1-Clause 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 plat- form tray icon library)	8dd1358b92562f af7c032cf5362fa 97cbc7e13e9	MIT License
ts-loader	9.2.8	MIT License
ts-node	9.1.1	MIT License
tsconfig-paths	3.14.1	MIT License
tsconfig-paths- webpack-plugin	3.5.2	MIT License
tslib	1.14.1	BSD Zero Clause License
tslib	2.1.0	BSD Zero Clause License
tslib	2.3.1	BSD Zero Clause License
type-check	0.3.2	MIT License
type-check	0.4.0	MIT License
type-detect	4.0.8	MIT License

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type-fest	0.20.2	MIT License OR Creative Commons Zero v1.0 Universal
type-fest	0.21.3	MIT License 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
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

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typescript	4.5.5	Apache License 2.0
tzdata	2022g	Public Domain AND BSD 3-Clause License
uhubctl	2.4.0	GPL-2.0-only License
unclutter-xfixes	1.6	MIT License
unicode-canonical-property-names-ecmascript	2.0.0	MIT License
unicode-match-property-ecmascript	2.0.0	MIT License
unicode-match-property-value-ecmascript	2.0.0	MIT License
unicode-property-aliases-ecmascript	2.0.0	MIT License
universalify	0.1.2	MIT License
universalify	2.0.0	MIT License
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LLVM Team

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3.10 GCC Runtime Library exception 3.1

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

"A generic solution to polygon clipping"

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

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

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

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

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences

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<http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf>

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

Mapbox GL Native

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CSS Color Parser

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

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shelf-pack-cpp

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Abseil

Project Homepage: <https://github.com/abseil/abseil-cpp>

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Android Explicit Synchronization

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ARCore SDK

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Breakpad, An open-source multi-platform crash reportingsystem

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Chromium OS system API

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

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CityHash

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Closure compiler

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

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Cocoa extension code from Camino
 Project Homepage: <http://caminobrowser.org/>

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Compact Encoding Detection
 Project Homepage: https://github.com/google/compact_enc_det

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d3

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dynamic annotations

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Emoji Segmenter

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

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Expat XML Parser

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FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to
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whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these
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modifications by Alexander Strange <astrange@ithinksw.com>; Originally from
dct/x86_asm/fdct_sse2_skal.asm in Xvid. Vertical pass is an implementation of the scheme: Loe
Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT Algorithm with Eleven Multiplications,
ICASSP 1989, 988-991. Horizontal pass is a double 4x4 vector/matrix multiplication, (see also
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google-glog's symbolization library

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

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google-jstemplate

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GVR Android SDK
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./Eigen/src/Core/TriangularMatrix.h ./Eigen/src/Core/Transpose.h ./Eigen/src/Core/DiagonalMat
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2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 2193-2194, 2195-2196, 2197-2198, 2199-2200, 2201-2202, 2203-2204, 2205-2206, 2207-2208, 2209-2210, 2211-2212, 2213-2214, 2215-2216, 2217-2218, 2219-2220, 2221-2222, 2223-2224, 2225-2226, 2227-2228, 2229-2230, 2231-2232, 2233-2234, 2235-2236, 2237-2238, 2239-2240, 2241-2242, 2243-2244, 2245-2246, 2247-2248, 2249-2250, 2251-2252, 2253-2254, 2255-2256, 2257-2258, 2259-2260, 2261-2262, 2263-2264, 2265-2266, 2267-2268, 2269-2270, 2271-2272, 2273-2274, 2275-2276, 2277-2278, 2279-2280, 2281-2282, 2283-2284, 2285-2286, 2287-2288, 2289-2290, 2291-2292, 2293-2294, 2295-2296, 2297-2298, 2299-2300, 2301-2302, 2303-2304, 2305-2306, 2307-2308, 2309-2310, 2311-2312, 2313-2314, 2315-2316, 2317-2318, 2319-2320, 2321-2322, 2323-2324, 2325-2326, 2327-2328, 2329-2330, 2331-2332, 2333-2334, 2335-2336, 2337-2338, 2339-2340, 2341-2342, 2343-2344, 2345-2346, 2347-2348, 2349-2350, 2351-2352, 2353-2354, 2355-2356, 2357-2358, 2359-2360, 2361-2362, 2363-2364, 2365-2366, 2367-2368, 2369-2370, 2371-2372, 2373-2374, 2375-2376, 2377-2378, 2379-2380, 2381-2382, 2383-2384, 2385-2386, 2387-2388, 2389-2390, 2391-2392, 2393-2394, 2395-2396, 2397-2398, 2399-2400, 2401-2402, 2403-2404, 2405-2406, 2407-2408, 2409-2410, 2411-2412, 2413-2414, 2415-2416, 2417-2418, 2419-2420, 2421-2422, 2423-2424, 2425-2426, 2427-2428, 2429-2430, 2431-2432, 2433-2434, 2435-2436, 2437-2438, 2439-2440, 2441-2442, 2443-2444, 2445-2446, 2447-2448, 2449-2450, 2451-2452, 2453-2454, 2455-2456, 2457-2458, 2459-2460, 2461-2462, 2463-2464, 2465-2466, 2467-2468, 2469-2470, 2471-2472, 2473-2474, 2475-2476, 2477-2478, 2479-2480, 2481-2482, 2483-2484, 2485-2486, 2487-2488, 2489-2490, 2491-2492, 2493-2494, 2495-2496, 2497-2498, 2499-2500, 2501-2502, 2503-2504, 2505-2506, 2507-2508, 2509-2510, 2511-2512, 2513-2514, 2515-2516, 2517-2518, 2519-2520, 2521-2522, 2523-2524, 2525-2526, 2527-2528, 2529-2530, 2531-2532, 2533-2534, 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2717-2718, 2719-2720, 2721-2722, 2723-2724, 2725-2726, 2727-2728, 2729-2730, 2731-2732, 2733-2734, 2735-2736, 2737-2738, 2739-2740, 2741-2742, 2743-2744, 2745-2746, 2747-2748, 2749-2750, 2751-2752, 2753-2754, 2755-2756, 2757-2758, 2759-2760, 2761-2762, 2763-2764, 2765-2766, 2767-2768, 2769-2770, 2771-2772, 2773-2774, 2775-2776, 2777-2778, 2779-2780, 2781-2782, 2783-2784, 2785-2786, 2787-2788, 2789-2790, 2791-2792, 2793-2794, 2795-2796, 2797-2798, 2799-2800, 2801-2802, 2803-2804, 2805-2806, 2807-2808, 2809-2810, 2811-2812, 2813-2814, 2815-2816, 2817-2818, 2819-2820, 2821-2822, 2823-2824, 2825-2826, 2827-2828, 2829-2830, 2831-2832, 2833-2834, 2835-2836, 2837-2838, 2839-2840, 2841-2842, 2843-2844, 2845-2846, 2847-2848, 2849-2850, 2851-2852, 2853-2854, 2855-2856, 2857-2858, 2859-2860, 2861-2862, 2863-2864, 2865-2866, 2867-2868, 2869-2870, 2871-2872, 2873-2874, 2875-2876, 2877-2878, 2879-2880, 2881-2882, 2883-2884, 2885-2886, 2887-2888, 2889-2890, 2891-2892, 2893-2894, 2895-2896, 2897-2898, 2899-2900, 2901-2902, 2903-2904, 2905-2906, 2907-2908, 2909-2910, 2911-2912, 2913-2914, 2915-2916, 2917-2918, 2919-2920, 2921-2922, 2923-2924, 2925-2926, 2927-2928, 2929-2930, 2931-2932, 2933-2934, 2935-2936, 2937-2938, 2939-2940, 2941-2942, 2943-2944, 2945-2946, 2947-2948, 2949-2950, 2951-2952, 2953-2954, 2955-2956, 2957-2958, 2959-2960, 2961-2962, 2963-2964, 2965-2966, 2967-2968, 2969-2970, 2971-2972, 2973-2974, 2975-2976, 2977-2978, 2979-2980, 2981-2982, 2983-2984, 2985-2986, 2987-2988, 2989-2990, 2991-2992, 2993-2994, 2995-2996, 2997-2998, 2999-3000, 3001-3002, 3003-3004, 3005-3006, 3007-3008, 3009-3010, 3011-3012, 3013-3014, 3015-3016, 3017-3018, 3019-3020, 3021-3022, 3023-3024, 3025-3026, 3027-3028, 3029-3030, 3031-3032, 3033-3034, 3035-3036, 3037-3038, 3039-3040, 3041-3042, 3043-3044, 3045-3046, 3047-3048, 3049-3050, 3051-3052, 3053-3054, 3055-3056, 3057-3058, 3059-3060, 3061-3062, 3063-3064, 3065-3066, 3067-3068, 3069-3070, 3071-3072, 3073-3074, 3075-3076, 3077-3078, 3079-3080, 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3263-3264, 3265-3266, 3267-3268, 3269-3270, 3271-3272, 3273-3274, 3275-3276, 3277-3278, 3279-3280, 3281-3282, 3283-3284, 3285-3286, 3287-3288, 3289-3290, 3291-3292, 3293-3294, 3295-3296, 3297-3298, 3299-3300, 3301-3302, 3303-3304, 3305-3306, 3307-3308, 3309-3310, 3311-3312, 3313-3314, 3315-3316, 3317-3318, 3319-3320, 3321-3322, 3323-3324, 3325-3326, 3327-3328, 3329-3330, 3331-3332, 3333-3334, 3335-3336, 3337-3338, 3339-3340, 3341-3342, 3343-3344, 3345-3346, 3347-3348, 3349-3350, 3351-3352, 3353-3354, 3355-3356, 3357-3358, 3359-3360, 3361-3362, 3363-3364, 3365-3366, 3367-3368, 3369-3370, 3371-3372, 3373-3374, 3375-3376, 3377-3378, 3379-3380, 3381-3382, 3383-3384, 3385-3386, 3387-3388, 3389-3390, 3391-3392, 3393-3394, 3395-3396, 3397-3398, 3399-3400, 3401-3402, 3403-3404, 3405-3406, 3407-3408, 3409-3410, 3411-3412, 3413-3414, 3415-3416, 3417-3418, 3419-3420, 3421-3422, 3423-3424, 3425-3426, 3427-3428, 3429-3430, 3431-3432, 3433-3434, 3435-3436, 3437-3438, 3439-3440, 3441-3442, 3443-3444, 3445-3446, 3447-3448, 3449-3450, 3451-3452, 3453-3454, 3455-3456, 3457-3458, 3459-3460, 3461-3462, 3463-3464, 3465-3466, 3467-3468, 3469-3470, 3471-3472, 3473-3474, 3475-3476, 3477-3478, 3479-3480, 3481-3482, 3483-3484, 3485-3486, 3487-3488, 3489-3490, 3491-3492, 3493-3494, 3495-3496, 3497-3498, 3499-3500, 3501-3502, 3503-3504, 3505-3506, 3507-3508, 3509-3510, 3511-3512, 3513-3514, 3515-3516, 3517-3518, 3519-3520, 3521-3522, 3523-3524, 3525-3526, 3527-3528, 3529-3530, 3531-3532, 3533-3534, 3535-3536, 3537-3538, 3539-3540, 3541-3542, 3543-3544, 3545-3546, 3547-3548, 3549-3550, 3551-3552, 3553-3554, 3555-3556, 3557-3558, 3559-3560, 3561-3562, 3563-3564, 3565-3566, 3567-3568, 3569-3570, 3571-3572, 3573-3574, 3575-3576, 3577-3578, 3579-3580, 3581-3582, 3583-3584, 3585-3586, 3587-3588, 3589-3590, 3591-3592, 3593-3594, 3595-3596, 3597-3598, 3599-3600, 3601-3602, 3603-3604, 3605-3606, 3607-3608, 3609-3610, 3611-3612, 3613-3614, 3615-3616, 3617-3618, 3619-3620, 3621-3622, 3623-3624, 3625-3626, 3627-3628, 3629-3630, 3631-3632, 3633-3634, 3635-3636, 3637-3638, 3639-3640, 3641-3642, 3643-3644, 3645-3646, 3647-3648, 3649-3650, 3651-3652, 3653-3654, 3655-3656, 3657-3658, 3659-3660, 3661-3662, 3663-3664, 3665-3666, 3667-3668, 3669-3670, 3671-3672, 3673-3674, 3675-3676, 3677-3678, 3679-3680, 3681-3682, 3683-3684, 3685-3686, 3687-3688, 3689-3690, 3691-3692, 3693-3694, 3695-3696, 3697-3698, 3699-3700, 3701-3702, 3703-3704, 3705-3706, 3707-3708, 3709-3710, 3711-3712, 3713-3714, 3715-3716, 3717-3718, 3719-3720, 3721-3722, 3723-3724, 3725-3726, 3727-3728, 3729-3730, 3731-3732, 3733-3734, 3735-3736, 3737-3738, 3739-3740, 3741-3742, 3743-3744, 3745-3746, 3747-3748, 3749-3750, 3751-3752, 3753-3754, 3755-3756, 3757-3758, 3759-3760, 3761-3762, 3763-3764, 3765-3766, 3767-3768, 3769-3770, 3771-3772, 3773-3774, 3775-3776, 3777-3778, 3779-3780, 3781-3782, 3783-3784, 3785-3786, 3787-3788, 3789-3790, 3791-3792, 3793-3794, 3795-3796, 3797-3798, 3799-3800, 3801-3802, 3803-3804, 3805-3806, 3807-3808, 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3991-3992, 3993-3994, 3995-3996, 3997-3998, 3999-4000, 4001-4002, 4003-4004, 4005-4006, 4007-4008, 4009-4010, 4011-4012, 4013-4014, 4015-4016, 4017-4018, 4019-4020, 4021-4022, 4023-4024, 4025-4026, 4027-4028, 4029-4030, 4031-4032, 4033-4034, 4035-4036, 4037-4038, 4039-4040, 4041-4042, 4043-4044, 4045-4046, 4047-4048, 4049-4050, 4051-4052, 4053-4054, 4055-4056, 4057-4058, 4059-4060, 4061-4062, 4063-4064, 4065-4066, 4067-4068, 4069-4070, 4071-4072, 4073-4074, 4075-4076, 4077-4078, 4079-4080, 4081-4082, 4083-4084, 4085-4086, 4087-4088, 4089-4090, 4091-4092, 4093-4094, 4095-4096, 4097-4098, 4099-4100, 4101-4102, 4103-4104, 4105-4106, 4107-4108, 4109-4110, 4111-4112, 4113-4114, 4115-4116, 4117-4118, 4119-4120, 4121-4122, 4123-4124, 4125-4126, 4127-4128, 4129-4130, 4131-4132, 4133-4134, 4135-4136, 4137-4138, 4139-4140, 4141-4142, 4143-4144, 4145-4146, 4147-4148, 4149-4150, 4151-4152, 4153-4154, 4155-4156, 4157-4158, 4159-4160, 4161-4162, 4163-4

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Device drivers	src/ mesa/ drivers/	See drivers	Ext headers
include/GL/glext.h	SGI	SGI	Free B
include/GL/glxext.h	GLUT	src/ glut/	SGI
Kilgard Mark's copyright	GLEW	src/ glew-1.13.0	Nigel Stewart Modified BSD
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demo programs	progs/ demos/	various	see source files
X demos	progs/ xdemos/	Brian Paul	see source files
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Jinja2 Python Template Engine

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jsoncpp

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

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Khronos reference front-end for GLSL and ESSL

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LevelDB: A Fast Persistent Key-Value Store

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

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libaddressinput

Project Homepage: <https://github.com/googleil18n/libaddressinput>

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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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libvpx

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libxslt

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libyuv

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OTS (OpenType Sanitizer)

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Protocol Buffers

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

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pyjson5

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

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pywebsocket3

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

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Quick Color Management System

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

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re2 - an efficient, principled regular expression library

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Shaderc

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six

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Snappy: A fast compressor/decompressor

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

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url_parse

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usrstcp

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v4l-utils

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valgrind

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WebM container parser and writer.

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WebP image encoder/decoder

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Weston - reference Wayland compositor

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Windows Template Library (WTL)

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woff2

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Wuffs (Wrangling Untrusted File Formats Safely)

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

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xdg-mime

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- libtalloc-2.3.3: talloc.h, 3-27
- libtalloc-2.3.3: pytalloc.h, 1-18
- libtdb-1.4.3: tools/tdbdump.c, 1-18
- libtdb-1.4.3: include/tdb.h, 1-27
- libtevent-0.10.2: tevent.h, 1-26

- libtirpc-1.3.2: COPYING
- libtirpc-1.3.2: src/netname.c, 1-27
- libunistring-1.0: COPYING.LIB
- libunistring-1.0: README, 45-65
- libunistring-1.0: doc/libunistring.texi
- libunwind-1.6.2: COPYING
- liburcu-0.13.2: LICENSE
- liburcu-0.13.2: include/urcu/urcu.h, 4-32
- liburcu-0.13.2: include/urcu/uatomic/x86.h, 4-21
- libusb1-1.0.26: COPYING
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- libxi-1.8: src/XIGetDevFocus.c, 1-23
- libxinerama-1.1.4: COPYING
- libxinerama-1.1.4: src/Xinerama.c, 2-25
- libxkbcommon-1.4.1: LICENSE
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- libxml2-2.9.14: hash.c, 6-15
- libxml2-2.9.14: list.c, 4-13
- libxml2-2.9.14: trio.c, 5-14
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- ncurses-6.3+20220423: COPYING, 1-27
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- nettle-3.7.3: COPYINGv2
- nettle-3.7.3: serpent-decrypt.c, 14-36
- nettle-3.7.3: serpent-set-key.c, 14-36
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- nspr-4.29: Makefile.in, 4-38
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- pixman-0.40.0: pixman/pixman-arm-neon-asm.h, 1-24
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- rpcbind-1.2.6: src/rpcinfo.c, 1-27
- rsmic-git: rsmic.c, 1-1
- rssh-2.3.4: LICENSE
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- x11vnc-0.9.16+git: src/x11vnc.h, 1-31
- xauth-1.1.1: COPYING
- xcb-util-0.4.0: src/xcb_aux.c, 1-30
- xcb-util-0.4.0: src/xcb_event.h, 1-27
- xcb-util-image-0.4.0: image/xcb_image.c, 1-24
- xcb-util-image-0.4.0: image/xcb_image.h, 4-27
- xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30
- xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24
- xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
- xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24
- xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
- xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30

```

- xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
- xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
- xf86-input-evdev-2.10.6: COPYING
- xf86-input-keyboard-1.9.0: COPYING
- xf86-input-libinput-1.2.1: COPYING
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- xz-5.2.6: lib/getopt.c, 1-23
- zeromq-4.3.4: COPYING.LESSER
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That's all there is to it!

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

#ifndef foaddressshfoo
#define foaddressshfoo

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 */

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

#include <inttypes.h>

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

#ifndef foodnshfoo
#define foodnshfoo
```

```

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****/

#include "rr.h"

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

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  USA.
****/

#ifdef HAVE_CONFIG_H
#include <config.h>

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

```

```

#ifndef fooclienthfoo
#define fooclienthfoo

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#include <inttypes.h>

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```

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```
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```

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```
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```

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

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```
=====
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binutils-2.38: include/COPYING
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=====
```

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```

```
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charge to all third parties under the terms of this License.

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

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

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

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If 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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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.)

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

That's all there is to it!

```

=====
binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
cifs-utils-6.14: COPYING
elfutils-0.186: COPYING
gcc-runtime-11.3.0: COPYING3
gdb-11.2: COPYING3
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-4.14.14: COPYING
xz-5.2.6: COPYING.GPLv3
=====

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
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```

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```

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```
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```

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```
=====
binutils-2.38: COPYING3.LIB
gcc-runtime-11.3.0: 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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```
=====  
binutils-2.38: libiberty/COPYING.LIB  
=====
```

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Version 2.1, February 1999

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jseward@bzip.org

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curve25519.c:

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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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```

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

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

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

```
/* pwait - wait for processes to terminate
 * extrace - trace exec() calls system-wide
 *
 * Copyright (C) 2014-2019 Leah Neukirchen <leah@vuxu.org>
 *
 * hacked from sources of:
 */
/* FreeBSD: head/bin/pwait/pwait.c 245506 2013-01-16 18:15:25Z delphij */
/*-
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* OF SUCH DAMAGE.
*/
/* exec-notify, so you can watch your acrobat reader or vim executing "bash -c"
* commands ;- )
* Requires some 2.6.x Linux kernel with proc connector enabled.
*
* $ cc -Wall -ansi -pedantic -std=c99 exec-notify.c
*
* (C) 2007-2010 Sebastian Krahmer <krahmer@suse.de> original netlink handling
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*/
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*/

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libftdi-1.4: COPYING.GPL

```


pciutils-3.7.0: COPYING
systemd-250.5: LICENSE.GPL2

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

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

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

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

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



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

k14        -misc-fixed-medium-r-normal--14-*--*--*--*--jisx0208.1983-0

```

```

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

lucidasans-10 -b&h-lucida-medium-r-normal-sans-14-100-100-100-p-80-iso8859-1
lucidasans-12 -b&h-lucida-medium-r-normal-sans-17-120-100-100-p-96-iso8859-1
lucidasans-14 -b&h-lucida-medium-r-normal-sans-20-140-100-100-p-114-iso8859-1
lucidasans-18 -b&h-lucida-medium-r-normal-sans-25-180-100-100-p-142-iso8859-1
lucidasans-24 -b&h-lucida-medium-r-normal-sans-34-240-100-100-p-191-iso8859-1
lucidasanstypewriter-bold-8
-b&h-lucidatypewriter-bold-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-bold-10
-b&h-lucidatypewriter-bold-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-bold-12
-b&h-lucidatypewriter-bold-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-bold-14
-b&h-lucidatypewriter-bold-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-bold-18
-b&h-lucidatypewriter-bold-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-bold-24
-b&h-lucidatypewriter-bold-r-normal-sans-34-240-100-100-m-200-iso8859-1
lucidasanstypewriter-8
-b&h-lucidatypewriter-medium-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-10
-b&h-lucidatypewriter-medium-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-12
-b&h-lucidatypewriter-medium-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-14
-b&h-lucidatypewriter-medium-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-18
-b&h-lucidatypewriter-medium-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-24
-b&h-lucidatypewriter-medium-r-normal-sans-34-240-100-100-m-200-iso8859-1

```

```

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fontconfig-2.13.1: COPYING
=====

```

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

```
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 *
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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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```

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```

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

```

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shadow-securetty-4.6: sources/poky/meta/COPYING.MIT
xserver-xf86-config-0.1: sources/poky/meta/COPYING.MIT
=====

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```
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```

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```
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```

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```
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```

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

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```
=====
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glib-2.0-2.72.3: COPYING
glib-2.0-2.72.3: gmodule/COPYING
glibc-2.35: COPYING.LIB
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xz-5.2.6: COPYING.LGPLv2.1
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```

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```

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

That's all there is to it!

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

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

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```

```

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

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glibc-2.35: LICENSES
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krb5-1.17.2: NOTICE  
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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

```

lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

```

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

```

include/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/kproprpc.c
kprop/kproplog.c

```

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```
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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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```
=====
libpgp-error-1.44: src/gpg-error.h.in, 2-18
=====
```

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=====
libpgp-error-1.44: src/init.c, 2-17
=====
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```
=====
libidn2-2.3.2: src/idn2.c, 1-16
=====
```

```
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```

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```
*/
```

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

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

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

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=====

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 *
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 * Most applications using the library need only include this file,
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 */

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

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

/*

Unix SMB/CIFS implementation.

Python interface to ldb.

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*/

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

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

/*

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simple ldb tdb dump util

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```

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

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

THE BASIC LIBRARY FUNCTIONS

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

University of Cambridge Computing Service,
Cambridge, England.

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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
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THE C++ WRAPPER FUNCTIONS

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End

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

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=====

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=====

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libsodium-1.0.18: LICENSE
```

```
=====
```

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 */
```

```
=====
```

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

```
=====
```

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

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 */
```

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

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

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

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

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```
*/
```

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

```

#ifndef __TDB_H__
#define __TDB_H__

/*
   Unix SMB/CIFS implementation.

   trivial database library

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*/

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

/*
   Unix SMB/CIFS implementation.

   generalised event loop handling

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```

*/

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

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

/*

```
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```

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

```

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```

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

```

```

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

@include version.texi

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

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

@c Macro for referencing a POSIX function.
@c We don't write it as func(), see section "GNU Manuals" of the

```

```

@c GNU coding standards.
@ifinfo
@macro posixfunc{func}
@code{\func\}
@end macro
@end ifinfo
@ifnotinfo
@macro posixfunc{func}
@uref{@value{POSIXURL}/functions/\func\.html,,@code{\func\}}
@end macro
@end ifnotinfo

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

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

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

@ifinfo
This manual is for GNU libunistring.

@ignore

```

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 @end ifinfo

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 @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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```

A copy of the license is included in @ref{GNU GPL}.
@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
* unitypes.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
* unigrbrk.h::                 Grapheme cluster breaking
* uniwbrk.h::                  Word breaks in strings
* unilbrk.h::                  Line breaking
* uninorm.h::                  Normalization forms
* unicast.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 an

``unibyte locale'', otherwise of a ``multibyte locale''. It is important to realize that the majority of Unix installations nowadays use UTF-8 or GB18030 as locale encoding; therefore, the majority of users are using multibyte locales.

```
@cindex char, type
The important fact to remember is:
@cartouche
@emph{A @samp{char} is a byte, not a character.}
@end cartouche
```

As a consequence:

```
@itemize @bullet
@item
The @posixheader{ctype.h} API is useless in this context; it does not work in
multibyte locales.
@item
The @posixfunc{strlen} function does not return the number of characters
in a string. Nor does it return the number of screen columns occupied
by a string after it is output. It merely returns the number of
@emph{bytes} occupied by a string.
@item
Truncating a string, for example, with @posixfunc{strncpy}, can have the
effect of truncating it in the middle of a multibyte character. Such
a string will, when output, have a garbled character at its end, often
represented by a hollow box.
@item
@posixfunc{strchr} and @posixfunc{strrchr} do not work with multibyte strings
if the locale encoding is GB18030 and the character to be searched is
a digit.
@item
@posixfunc{strstr} does not work with multibyte strings if the locale encoding
is different from UTF-8.
@item
@posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn} cannot work
correctly in multibyte locales: they assume the second argument is a list of
single-byte characters. Even in this simple case, they do not work with
multibyte strings if the locale encoding is GB18030 and one of the
characters to be searched is a digit.
@item
@posixfunc{strsep} and @posixfunc{strtok_r} do not work with multibyte strings
unless all of the delimiter characters are ASCII characters < 0x30.
@item
The @posixfunc{strcasecmp}, @posixfunc{strncasecmp}, and @posixfunc{strcasestr}
functions do not work with multibyte strings.
@end itemize
```

```
The workarounds can be found in GNU glibc
@url{https://www.gnu.org/software/glibc/}.
@itemize @bullet
```

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

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

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

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

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

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

@item
 glibc has functions @func{mbscasecmp}, @func{mbsncascasecmp}, @func{mbspcascasecmp}, and @func{mbscasestr} that are like @posixfunc{strcascasecmp}, @posixfunc{strncascasecmp}, and @posixfunc{strcasestr}, but work in multibyte locales. Still, the function @code{ulc_casecmp} 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 `{@var{resultbuf}, @var{lengthp}}` argument pair. If `{@var{resultbuf}}` is not NULL and the result fits into `{*@var{lengthp}}` units, it is put in `{@var{resultbuf}}`, and `{@var{resultbuf}}` is returned. Otherwise, a freshly allocated string is returned. In both cases, `{*@var{lengthp}}` is set to the length (number of units) of the returned string. In case of error, NULL is returned and `{errno}` is set.

```
@include unitypes.texi
#include unistr.texi
#include uniconv.texi
#include unistdio.texi
#include uniname.texi
#include unictype.texi
#include uniwidth.texi
#include unigbrk.texi
#include uniwbrk.texi
#include unilbrk.texi
#include uninorm.texi
#include 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 `{LIBUNISTRING_PREFIX}` the value of the `{--prefix}` option that you passed to `{configure}` while installing this package. If you didn't pass any `{--prefix}` option, then the package is installed in `{/usr/local}`.

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

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

```
@cindex compiler options
```

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

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

```
@node Include files
@section Include files
```

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

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

```
@deftypevr Macro int _LIBUNISTRING_VERSION
```

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

```
@end deftypevr
```

```
@deftypevr Constant int _libunistring_version
```

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

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

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

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

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

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

`@itemize @bullet`
`@item`

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

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

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

@node Reporting problems
 @section Reporting problems

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

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

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

@include wchar_t.texi

@include char32_t.texi

@node Licenses
 @appendix Licenses
 @cindex Licenses

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

@itemize @bullet
 @item

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

@itemize @bullet

@item @minus{}

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

```

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the terms of the GNU General Public License (GPL) version 2 or
(at your option) any later version, or
@item @minus{}
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@end itemize

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@*

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@*

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```

```

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@end itemize

```

```

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

```

```

@page
@node GNU GPL
@appendixsec GNU GENERAL PUBLIC LICENSE
@cindex GPL, GNU General Public License
@cindex License, GNU GPL
@include gpl.texi
@page

```

```

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

```

```

@node Index
@unnumbered Index

```

```

@printindex cp

```

```

@bye

```

```

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

```

```

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

```

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liburcu-0.13.2: LICENSE

=====

Userspace RCU library licensing

Mathieu Desnoyers

September 3, 2012

* LGPLv2.1

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

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

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

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

See `lgpl-relicensing.txt` for details.

* MIT-style license :

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

http://www.hpl.hp.com/research/linux/atomic_ops/LICENSING.txt

http://www.hpl.hp.com/personal/Hans_Boehm/gc/gc_source/

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

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

MIT/X11 (BSD like) license apply to:

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



```
uatonic/nios2.h
uatonic/s390.h
system.h
```

* GPLv2

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

* GPLv3 (or later)

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

```
m4/ax_tls.m4
```

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

```
/*
 * urcu.h
 *
 * Userspace RCU header
 *
 * Copyright (c) 2009 Mathieu Desnoyers <mathieu.desnoyers@efficios.com>
 * Copyright (c) 2009 Paul E. McKenney, IBM Corporation.
 *
 * LGPL-compatible code should include this header with :
 *
 * #define _LGPL_SOURCE
 * #include <urcu.h>
 *
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 *
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 *
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 *
 * IBM's contributions to this file may be relicensed under LGPLv2 or later.
 */
```

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

```
/*
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 * Copyright (c) 1996-1999 by Silicon Graphics. All rights reserved.
 * Copyright (c) 1999-2004 Hewlett-Packard Development Company, L.P.
 * Copyright (c) 2009 Mathieu Desnoyers
 *
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 *
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 * 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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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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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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=====
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=====
libxml2-2.9.14: hash.c, 6-15
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ltnng-ust-2.13.5: LICENSE
=====
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snprintf/fileext.h
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snprintf/fvwrite.c
snprintf/fvwrite.h
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snprintf/mbrtowc_sb.c
snprintf/snprintf.c
snprintf/varioues.h
snprintf/vfprintf.c
snprintf/wcio.h:5
snprintf/wsetup.c
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```

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=====
lzo-2.10: src/lzo_init.c, 5-25
=====
```

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

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Ext headers	include/GL/glexth.h, include/GL/glxext.h	Khronos

```

+-----+-----+-----+
| GLX client code | src/glx/          | SGI Free Software License B |
+-----+-----+-----+
| C11 thread      | include/c11/threads*.h | Boost (permissive)         |
| emulation       |                       |                             |
+-----+-----+-----+

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ncurses-6.3: ncurses/base/version.c, 1-27
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=====
ncurses-6.3+20220423: COPYING, 1-27
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=====
nettle-3.7.3: serpent-decrypt.c, 14-36

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

=====

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

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

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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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pixman-0.40.0: pixman/pixman-matrix.c, 1-21
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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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=====
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=====
```

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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"
```

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

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

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

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

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

```
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```
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Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. */
```



```
#ifndef _LIBC
```

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

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Version 3, 29 June 2007

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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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=====
```

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